



Contaminant Screening Study Libby Asbestos Site, Operable Unit 4 Libby, Montana

Final Summary Report for the
J. Neils Park and Montana State Highway 37
Investigations, Revision 1

December 2005



Summary Report

FINAL (REVISION 1)

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J. Neils Park and Montana State Highway 37
Investigations, Revision 1
Contaminant Screening Study,
Libby Asbestos Site, Operable Unit 4

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Highway 37 Investigation, Revision 1
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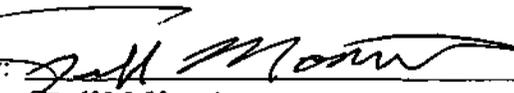


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Contents

Section 1 Introduction

Section 2 Field Activities

2.1	J. Neils Park Investigation.....	2-1
2.1.1	Verbal Interview.....	2-1
2.1.2	Visual Inspection.....	2-1
2.1.3	Soil Sampling.....	2-1
2.1.3.1	September 2003 Event.....	2-2
2.1.3.2	March 2005 Event.....	2-3
2.2	Montana State Highway 37 Investigation.....	2-4
2.2.1	Verbal Interview.....	2-4
2.2.2	Visual Inspection.....	2-4
2.2.3	Air Sampling.....	2-4
2.2.3.1	May 2005 Event.....	2-4
2.2.3.2	2001 Air Sampling.....	2-5
2.2.4	Soil Sampling.....	2-7
2.2.4.1	September 2003 Event.....	2-7
2.2.4.2	May 2005 Event.....	2-10
2.3	Soil Sample Processing and Analysis.....	2-12
2.4	Comparison of Soil Samples Collected Along Highway 37.....	2-12

Section 3 Quality Assurance/Quality Control

3.1	Deviations from the Sampling and Analysis Plan Addendum.....	3-1
3.2	Achievement of Data Quality Objectives.....	3-1
3.3	Data Validation and Reporting.....	3-1

Section 4 References

Appendices

- Appendix A* Information Field Form for J. Neils Park
- Appendix B* Logbook Pages for J. Neils Park Sampling Events
- Appendix C* Field Sample Data Sheets for J. Neils Park Sampling Events
- Appendix D* Analytical Results for September 2003 and March 2005 J. Neils Park Sampling Events
- Appendix E* Request Letter and Permit for Sampling Along Montana State Highway 37
- Appendix F* Logbook Pages for Highway 37 Sampling Events
- Appendix G* Field Sample Data Sheets for Highway 37 Sampling Events
- Appendix H* Analytical Results for 2001 and 2005 Highway 37 Air Sampling
- Appendix I* Analytical Results for September 2003 and May 2005 Highway 37 Soil Sampling Events
- Appendix J* Logbook Pages for 2001 Air Sampling Data Collected During Plummer Elementary and Libby High School Remediations
- Appendix K* Field Sample Data Sheets for 2001 Air Sampling Data Collected During Plummer Elementary and Libby High School Remediations

Figures

- 1-1 Site Location, J. Neils Park and Montana State Highway 37
- 2-1 Site Features, J. Neils Park
- 2-2 Soil Sample Locations and Results for September 2003 Sampling Event, J. Neils Park
- 2-3 Soil Sample Locations and Results for March 2005 Sampling Event, J. Neils Park
- 2-4 Air and Soil Sample Locations and Results for May 2005 Sampling Event, Montana State Highway 37
- 2-5 Soil Sample Locations and Results for September 2003 Sampling Event, Montana State Highway 37

Tables

- 2-1 Summary of Soil Samples Collected at J. Neils Park in September 2003 that Contain LA Asbestos
- 2-2 Summary of Soil Samples Collected at J. Neils Park in March 2005 that Contain LA Asbestos
- 2-3 Summary of Air Samples Collected Along Highway 37 in 2001
- 2-4 Summary of Soil Samples Collected Along Highway 37 in September 2003 that Contain LA Asbestos
- 2-5 Summary of Soil Samples Collected Along Highway 37 in May 2005
- 2-6 Comparison of 2003 and 2005 PLM-VE Soil Samples in Same Relative Locations Along Highway 37

Acronyms

bgs	below ground surface
CDM	CDM Federal Programs Corporation
CSF	close-support facility
CSS	contaminant screening study
EPA	U. S. Environmental Protection Agency
FSDS	Field Sample Data Sheet
Highway Site	Montana State Highway 37
IFF	Information Field Form
LA	Libby amphibole
Park Site	J. Neils Park
PLM	polarized light microscopy
QA/QC	quality assurance/quality control
QC	quality control
RI	remedial investigation
SAP	sampling and analysis plan
S/cc	structure per cubic centimeter
SRC	Syracuse Research Corporation
VE	visual area estimation
%	percent

Section 1

Introduction

The purpose of this report is to summarize contaminant screening study (CSS)/remedial investigation (RI) field activities conducted by CDM Federal Programs Corporation (CDM) at J. Neils Park (Park Site) and along Montana State Highway 37 (Highway Site) in Libby, Montana between August 2002 and May 2005. Figure 1-1 displays both site locations.

Consistent with other areas of Libby, Montana, vermiculite from Vermiculite Mountain may have been used as base and/or fill material throughout the J. Neils park paths, playground areas, sport fields, parking areas and concession areas. Visual inspections were performed and soil samples were collected, to determine if vermiculite and/or Libby amphibole (LA) asbestos are present in these areas of the park.

The selected sampling area along Montana State Highway 37 was used as a public thoroughfare, and as a route for transporting vermiculite ore from Vermiculite Mountain to the former export plant on the north side of the Kootenai River, and possibly into the city of Libby. A visual inspection was performed, and soil samples were collected along the 5 ½ mile stretch of highway to determine if vermiculite and/or LA asbestos are present along the highway. Following the receipt of the CSS soil sample results, the U. S. Environmental Protection Agency (EPA) requested a supplemental soil and stationary air sampling event.

All RI activities were conducted in accordance with the CSS Sampling and Analysis Plan, Revision 1 (SAP), (CDM 2003a) and Final Sampling and Analysis Plan Addendum for J. Neils Park and State Highway 37 (SAP Addendum) (CDM 2003b). Stationary air sampling was conducted in accordance with Final Draft Response Action Work Plan (CDM 2003c).

This summary report presents verbal interview information, visual inspection results, and site-specific air and surface soil sampling data to be used in RI decision making for the Park Site, and the Highway Site.

Section 2

Field Activities

The Park Site investigation consisted of a verbal interview, visual inspection for vermiculite, and surface soil sampling. The Highway Site investigation consisted of stationary air sampling, surface soil sampling and visual inspection for vermiculite during the sampling events. Unless noted in Section 3.1, all field documentation and sample collection procedures provided or referenced in the SAP Addendum (CDM 2003b) and Final Draft Response Action Work Plan (CDM 2003c) were followed. The following sections summarize field activities conducted at both sites.

2.1 J. Neils Park Investigation

2.1.1 Verbal Interview

An interview was conducted with Ms. Carol Ann Peltier of the Lincoln County Parks on August 6, 2002 to determine if there were any known locations of visible vermiculite on the park property. During the interview it was stated that the only insulated building on the property was the baseball field concession stand and it was not insulated with vermiculite. Ms. Peltier indicated that there were no other known areas of vermiculite on the Park Site property.

2.1.2 Visual Inspection

As part of the Park Site investigation the concession stand and other structures on the Park Site were inspected to determine if vermiculite-containing insulation or building materials were present. A visual inspection of the Park Site was also performed on August 6, 2002 to determine if any vermiculite was present on the site. A primary structure and property assessment information field form (IFF) was completed for the Park Site and is included in Appendix A. Park Site features are shown on Figure 2-1.

All structures on the Park Site were inspected by the CDM field team, and vermiculite insulation was not observed in any of the Park Site structures. A visual inspection of the Park Site was conducted and small amounts of vermiculite were observed on ball fields #3 and #4, between the site bathrooms and playground, and at the entrance to the horse arena (Figure 2-2).

In addition, vermiculite observed during soil sampling was noted in the field logbook and Field Sample Data Sheets (FSDS). Logbook pages and FSDS' for the Park Site investigation are included in Appendices B and C, respectively.

2.1.3 Soil Sampling

Soil sampling at the Park Site was conducted in two separate events: September 19-22, 2003, and March 8, 2005. Soil samples were collected, prepared, and analyzed in accordance with procedures presented or referenced in the SAP Addendum.

2.1.3.1 September 2003 Event

Sampling locations and results for the September 2003 sampling event are shown on Figure 2-2. The site was divided into four subareas including the pathways (i.e., horse path, walking path, and access road), the former airfield area, the forested area, and the areas where visible vermiculite was identified during the initial visual inspection.

Sample locations were selected for the pathways (horse path, walking path and entire access road) at 300-foot intervals. Each sample was a three-point composite, with one subsample being collected within the path, and the other two subsamples collected from each side of the path or road. If one side of the road could not be sampled due to obstacles, etc., a second subsample was collected approximately 15 feet from the sample location on the side of the road that could be sampled.

The site of the former airfield was divided into grids each approximately 250 feet by 200 feet. A five-point composite sample was collected from each grid square.

For the forested area, two sampling locations were chosen that were accessible and cleared. Each sample was a composite of five subsamples, one from the center location and four from 75 feet away from the center in each direction, north, south, east, and west. There was no evidence to indicate that the un-cleared forested area contained LA asbestos; therefore, only the cleared area was sampled, considering that this area would be the most likely place for introduced vermiculite.

In total, 67 composite surface soil samples were collected during the September 2003 investigation, three of which were field duplicates, from a depth of 0-6 inches (Figure 2-2). The results of all quality control (QC) samples will be addressed in a future data summary report. Of the 64 field (i.e., non-QC) samples; 26 were collected from the walking path, 9 from the horse path and 4 from the access road; 2 from the cleared areas of the forest; and 23 from the former airfield. No vermiculite was observed during the sampling event. Three samples had trace concentrations of LA asbestos (<0.2 percent [%]); all other samples collected during this investigation were non-detect for LA asbestos. Samples with detectable concentrations of LA asbestos are summarized in Table 2-1. All analytical results for the September event are included in Appendix D.

Table 2-1 Summary of Soil Samples Collected at J. Neils Park in September 2003 that Contain LA asbestos

Sample Index ID	Location	Depth (inches bgs)	LA asbestos (%)	Comments on Visible Vermiculite
CS-17306	Walking Path	0-6	<0.2	No visible vermiculite
CS-17344	Ball Field #1	0-6	<0.2	No visible vermiculite
CS-17355	Horse Path	0-6	<0.2	No visible vermiculite

bgs – below ground surface

2.1.3.2 March 2005 Event

Following the sampling event in September 2003, the city of Libby contacted EPA regarding maintenance they wanted to perform on the ball fields before the spring baseball season. Subsequently, CDM was tasked to collect samples from the infield portion of each ball field to further define the nature and extent of contamination. The four infields were sampled on March 8, 2005. Logbook pages and FSDS for this sampling event are in Appendices B and C, respectively.

Each infield was split into 3 sections and a five-point composite sample from 0-1 inches was collected from each section. Composite samples were collected from the right half of the field from home base to second base, the left half of the field from second base to home base, and the pitching mound.

A total of twelve samples were collected from the four ball fields. The analytical result of the sample collected from the pitching mound of Field #1 revealed <1% LA asbestos, and the analytical result of the sample collected from the pitching mound of Field #2 revealed trace (<0.2%) LA asbestos. All remaining infield samples were non-detect for LA asbestos. Although visible vermiculite was noted during the August 2002 visual inspection on ball Fields #3 and #4, vermiculite was not observed during the September 2003 or March 2005 sampling events. Table 2-2 lists the details for those samples where LA asbestos was detected. Sample locations and analytical results are presented on Figure 2-3. Analytical results for the March 2005 sampling event can be found in Appendix D.

Table 2-2 Summary of Soil Samples Collected at J. Neils Park in March 2005 that Contain LA asbestos

Sample Index ID	Location	Depth (inches bgs)	LA asbestos (%)	Comments on Visible Vermiculite
CS-20064	Ball Field #1	0-1	<0.2	No visible vermiculite
CS-20073	Ball Field #2	0-1	<1	No visible vermiculite

2.2 Montana State Highway 37 Investigation

2.2.1 Verbal Interview

A verbal interview was not conducted for the Highway Site because there was not an individual available to contact for an interview. Therefore, an IFF was not completed for this site. However, CDM contacted the Montana Department of Transportation and obtained a temporary permit for sampling along the highway. The permit was issued on July 21, 2003, with an end date of December 30, 2003. A copy of the request letter from CDM and a copy of the signed permit can be found in Appendix E. Per EPA's request, a permit was not required for the sampling conducted in May 2005.

2.2.2 Visual Inspection

A visual inspection was not completed prior to the sampling event due to the length of the segment to be sampled and the dense vegetation along the road. Visual observations were noted during the sampling activities and are summarized in Tables 2-4 and 2-5. Logbook notes and FSDS' for this field event are included in Appendices F and G, respectively.

2.2.3 Air Sampling

2.2.3.1 May 2005 Event

Air samples were not initially scoped as a part of the Highway 37 CSS sampling event. However, after finding that several soil samples collected in 2003 contained LA asbestos and relatively large amounts of visible vermiculite were observed along the highway, EPA requested that stationary air sampling be conducted along the same 5 ½ mile section of Highway 37. The intent of the sampling was to screen outdoor air near the highway for concentrations of LA asbestos that may be of immediate concern to people working on or living near the highway.

An event-specific SAP was not developed for this supplemental sampling because of the time sensitive nature of the sampling. Instead, air sampling and analysis standard operating procedures presented in the Final Draft Removal Action Work Plan were used (CDM 2003c).

A total of 11 air samples were collected from stationary pumps setup along Highway 37 on May 23, 2005. The 11 stationary pumps were staggered geographically and collected air samples over a minimum time period of eight hours. LA asbestos was not detected in any of the 11 air samples (Appendix H). Locations and results of these air samples are shown on Figure 2-4. Logbook pages and FSDS' are provided in Appendices F and G, respectively.

2.2.3.2 2001 Air Sampling

To further evaluate potential exposure resulting from contamination along Highway 37, CDM has included air sampling results from past sampling activities that have taken place along the highway. In 2001 a series of samples were collected on (1) people driving along Highway 37, (2) people driving behind trucks carrying contaminated materials from a remediation site to the Flyway or Screening Plant, and (3) people walking along Highway 37 while trucks were actively hauling contaminated materials. The primary purpose of these samples was to evaluate potential releases and exposures to cleanup workers and highway users that may have resulted from the transport of contaminated materials by EPA contractors during cleanup activities. However, the samples also provide some information regarding potential exposures that may result from disturbance of contaminated soils on the road shoulders by normal highway traffic.

Thirty-one samples were identified as being directly related and reasonably specific to vehicle or foot traffic along Highway 37. Of these 31 samples, 24 air samples were collected from individuals traveling in vehicles, and 7 were collected from individuals on foot. Two LA asbestos fibers were detected on one sample collected from a vehicle traveling behind a truck carrying contaminated materials. LA asbestos was not detected on any of the remaining air samples collected in 2001 along Highway 37.

Analytical results, including number of LA asbestos structures detected, analytical sensitivities and concentrations of structures per cubic centimeter (S/cc) are shown in Table 2-3. Analytical results of all air samples are included in Appendix H with their associated activities. Logbook pages and FSDS' for the 2001 air sampling are included in Appendices J and K, respectively.

Table 2-3 Summary of Air Samples Collected Along Highway 37 in 2001

Sample ID	Analysis Method	LA Structures Detected	Analytical Sensitivity	Concentration (S/cc)	Location Description
1R-05995	ISO	0	0.1279	< 0.1279	Drive from Plummer to Flyway; roundtrip
1R-05996	ISO	0	0.1088	< 0.1088	Drive from Plummer to Flyway; roundtrip
1R-05997	ISO	0	0.1186	< 0.1186	Drive from Plummer to Screening Plant; roundtrip
1R-05998	ISO	0	0.1231	< 0.1231	Drive from Plummer to Flyway; roundtrip
1R-05999	ISO	0	0.1165	< 0.1165	Drive from Plummer to Flyway; roundtrip
1R-06046	ISO	0	0.0577	< 0.0577	Walk from Mack's Mart to Screening Plant
1R-06047	ISO	0	0.1020	< 0.1020	Walk from 402 Highway 2 West to Mack's Mart
1R-06054	PCM	0	0.0490	< 0.0490	Drive from Plummer to Flyway then Screening Plant, following truck; roundtrip
1R-06055	PCM	0	0.0530	< 0.0530	Drive from Plummer to Flyway then Screening Plant, following truck; roundtrip
1R-06056	PCM	0	0.0490	< 0.0490	Drive from Plummer to Flyway then Screening Plant, following truck; roundtrip
1R-06057	PCM	0	0.0930	< 0.0930	Drive from Plummer to Flyway then Screening Plant, following truck; one-way
1R-06130	ISO	0	0.1238	< 0.1238	Drive from Plummer to Screening Plant, following truck; roundtrip
1R-06130	AHERA	2	0.0585	0.1170	Drive from Plummer to Screening Plant, following truck; roundtrip
1R-06131	ISO	0	0.1148	< 0.1148	Drive from Plummer to Flyway, following truck; roundtrip
1R-06132	ISO	0	0.0986	< 0.0986	Drive from Plummer to Flyway, following truck; roundtrip
1R-06141	ISO	0	0.1332	< 0.1332	Drive from Plummer to Flyway, following truck; roundtrip
1R-06142	ISO	0	0.1255	< 0.1255	Drive from Plummer to Flyway, following truck; roundtrip
1R-06143	ISO	0	0.2039	< 0.2039	Drive from Plummer to Flyway then Screening Plant, following truck; one-way
1R-06170	ISO	0	0.0673	< 0.0673	Drive from LHS to Flyway; roundtrip
1R-06171	ISO	0	0.0745	< 0.0745	Drive from LHS to Flyway; roundtrip
1R-06172	ISO	0	0.0745	< 0.0745	Drive from LHS to Flyway; roundtrip
1R-06782	ISO	0	0.0814	< 0.0814	Drive from LHS to Flyway, following truck; roundtrip
1R-06783	ISO	0	0.0714	< 0.0714	Drive from LHS to Flyway, following truck; roundtrip
1R-06784	ISO	0	0.1000	< 0.1000	Drive from LHS to Screening Plant, following truck; one-way
1R-06841	ISO	0	0.1372	< 0.1372	Drive from LHS to Flyway, following truck; roundtrip
1R-06842	ISO	0	0.1343	< 0.1343	Drive from LHS to Flyway, following truck; roundtrip
1R-06843	ISO	0	0.1372	< 0.1372	Drive from LHS to Flyway, following truck; roundtrip
1R-07011	ISO	0	0.0764	< 0.0764	Walking sample of truck route from LHS to flyway
1R-07012	ISO	0	0.0764	< 0.0764	Walking sample of truck route from LHS to flyway
1R-07013	ISO	0	0.0733	< 0.0733	Walking sample of truck route from LHS to flyway
1R-07014	ISO	0	0.0815	< 0.0815	Walking sample of truck route from LHS to flyway
1R-07015	ISO	0	0.3056	< 0.3056	Walking sample of truck route from LHS to flyway

2.2.4 Soil Sampling

Soil sampling along the Highway Site was conducted in two separate events: September 18-22, 2003, and May 23, 2005. Soil samples were collected, prepared, and analyzed in accordance with procedures presented or referenced in the SAP Addendum.

2.2.4.1 September 2003 Event

A 5 ½ mile long section of Montana State Highway 37 was sampled from the Burlington Northern Railroad track, approximately 1/8 of a mile south of the Kootenai River, to ½ mile south of the junction of the highway and Rainy Creek Road. The section extends in a southwest/northeast direction.

Locations of samples collected in September 2003 are shown on Figure 2-5. The Highway Site was divided into ¼-mile segments along the road with an additional two samples collected near the Kootenai River (CS-17158 and CS-17159). One sample was collected on each side of the highway at each ¼ mile interval. Each sample was a composite of 3 subsamples at depths of 0-6 inches, within 10 feet from the highway, and approximately 100 feet apart.

A visual inspection of the highway was performed during the sampling event. Vermiculite was observed at points along the highway, see Figure 2-5. There were 51 samples collected along the Highway Site, 3 of which were field duplicates. The results of all QC samples will be addressed in a future data summary report. Of the 48 field (i.e., non-QC) samples, 3 had concentrations of LA asbestos at <1%, 37 had trace (<0.2%) amounts of LA asbestos, and 8 were non-detect. Table 2-4 lists the details for those samples where LA asbestos was detected. FSDS' for this event can be found in Appendix G, and analytical results in Appendix I.

Table 2-4 Summary of Soil Samples Collected Along Highway 37 in September 2003 that Contain LA asbestos

Sample Index ID	Depth (inches bgs)	LA asbestos (%)	Comments on Visible Vermiculite
CS-16875	0-6	<0.2	No visible vermiculite
CS-16876	0-6	<0.2	No visible vermiculite
CS-16878	0-6	<0.2	No visible vermiculite
CS-16879	0-6	<0.2	No visible vermiculite
CS-16880	0-6	<1	Moderate to high amounts of vermiculite observed, mainly near 100' east of center subsample location
CS-17122	0-6	<0.2	A few flakes of vermiculite observed
CS-17124	0-6	<0.2	No visible vermiculite
CS-17125	0-6	<0.2	No visible vermiculite
CS-17126	0-6	<1	Moderate amounts of visible vermiculite at center subsample location and 100' east of center subsample location
CS-17127	0-6	<0.2	No visible vermiculite
CS-17128	0-6	<0.2	Vermiculite observed on west side of road
CS-17129	0-6	<0.2	No visible vermiculite
CS-17130	0-6	<1	Moderate amounts of vermiculite observed at center and 100' east of center location, trace amounts observed at 100' west of center location
CS-17131	0-6	<0.2	No visible vermiculite
CS-17133	0-6	<0.2	Moderate amounts of vermiculite observed at center and 100' east of center location, trace amounts observed at 100' west of center location
CS-17134	0-6	<0.2	No visible vermiculite
CS-17135	0-6	<0.2	Moderate amounts of vermiculite observed at all subsample locations
CS-17136	0-6	<0.2	One flake of vermiculite observed 100' west of center subsample location
CS-17138	0-6	<0.2	Moderate amounts of vermiculite observed at 100' west and 100' east of center subsample locations and trace amount of vermiculite observed at center subsample location
CS-17139	0-6	<0.2	No visible vermiculite
CS-17140	0-6	<0.2	No visible vermiculite
CS-17141	0-6	<0.2	No visible vermiculite

(Continued) Table 2-4 Summary of Soil Samples Collected Along Highway 37 in September 2003 that Contain LA asbestos

Sample Index ID	Depth (inches bgs)	LA asbestos (%)	Comments on Visible Vermiculite
CS-17142	0-6	<0.2	Trace amount of vermiculite observed at center subsample location and at 100' west of the center subsample location
CS-17143	0-6	<0.2	No visible vermiculite
CS-17144	0-6	<0.2	Moderate amount of vermiculite observed at 100' west of the center subsample location and trace amounts observed at 100' east of center subsample location
CS-17145	0-6	<0.2	Moderate amount of vermiculite observed at center and 100' west of center subsample location, trace amount of vermiculite observed at 100' east of center subsample location
CS-17147	0-6	<0.2	Moderate amount of vermiculite observed at all subsample locations
CS-17148	0-6	<0.2	Trace amount of vermiculite observed at all subsample locations
CS-17149	0-6	<0.2	Moderate amount of vermiculite observed at center subsample location and at 100' west of subsample location, trace amount of vermiculite observed at 100' east of center subsample location
CS-17150	0-6	<0.2	Trace amount of vermiculite observed at all subsample locations
CS-17151	0-6	<0.2	Moderate amount of vermiculite observed at center and 100' west of center subsample location
CS-17152	0-6	<0.2	No visible vermiculite
CS-17153	0-6	<0.2	Trace amount of vermiculite observed at all subsample locations
CS-17154	0-6	<0.2	Trace amount of vermiculite observed at 100' west of center subsample location
CS-17155	0-6	<0.2	Trace amount of vermiculite observed at center subsample location
CS-17156	0-6	<0.2	No visible vermiculite
CS-17157	0-6	<0.2	No visible vermiculite
CS-17158	0-6	<0.2	No visible vermiculite
CS-17159	0-6	<0.2	No visible vermiculite
CS-17160	0-6	<0.2	No visible vermiculite

bgs - below ground surface

2.2.4.2 May 2005 Event

Following the September 2003 sampling event, EPA requested the highway site be resampled to provide additional information regarding the distribution of contamination along the highway. Specifically, because initial samples were collected over a 0-6 inch depth interval, EPA could not determine definitively if contamination was located at the surface of the soils (i.e. 0-1 inch) or was limited to deeper locations (e.g. may be covered with road sand or other soil). For this purpose, twelve additional samples were collected along Highway 37 at locations approximating sample locations of the September 2003 sampling event. Locations of samples collected on May 23, 2005 are shown on Figure 2-4. Each sample was a composite of three subsamples, at depths of 0-1 inches to identify possible contamination specifically at the surface. Global positioning system points taken in 2003 were used to establish the appropriate center subsample locations of the 2005 samples. Each subsample was collected within 10 feet from the highway. Each sample included one subsample in the center and two other subsamples collected parallel to the highway and approximately 100 feet from the center subsample location.

Each of the twelve samples were split in the field and sent for different analyses at two separate laboratories. Twelve samples were analyzed by an onsite field laboratory using polarized light microscopy (PLM)-9002 in order to provide immediate results regarding surface contamination. The twelve field splits were sent to CDM's close-support facility (CSF) in Denver where they were dried, sieved, and ground to less than 250 microns in diameter before being sent for analysis using PLM-visual area estimation (VE). Analysis under method PLM-9002 has the benefit of a sooner turn around time because the soils do not have to be prepared and ground prior to analysis.

Both analytical methods segregate the concentrations of LA asbestos into one of three bins: non-detect, <1%, and $\geq 1\%$. However, sample preparation (i.e., drying, sieving, and grinding) allows the laboratory to better quantify LA asbestos at lower concentrations. As a result, soil samples analyzed using PLM-VE can be categorized into one of four bins: non-detect, trace (<0.2%), <1%, and $\geq 1\%$. An analytical result of <1% under PLM-9002 is comparable to analytical results under PLM-VE of <1% or <0.2%.

Of the twelve samples analyzed under PLM-9002, 11 had concentrations of <1% LA asbestos, while one of the samples was non-detect for LA asbestos. Each sample analyzed by PLM-VE had trace (<0.2%) amounts of LA asbestos. Sample details, analytical results, and analysis method are summarized on Table 2-5. A visual inspection of the highway was performed during the sampling event. Vermiculite was observed at varying quantities along the highway. Sample locations, analytical results, and concentrations of visible vermiculite are presented on Figure 2-4. FSDS' for this event can be found in Appendix G, and analytical results in Appendix I.

Table 2-5 Summary of Soil Samples Collected Along Highway 37 in May 2005

Sample Index ID	Depth (inches bgs)	Analytical Method	LA asbestos (%)	Comments on Visible Vermiculite
CS-20202	0-1	PLM-9002	<1	High amounts of vermiculite observed at center subsample location, moderate amounts 100' south of center, and trace amounts of vermiculite observed 100' north of center
CS-20203	0-1	PLM-VE	<0.2	Field split of CS-20202
CS-20204	0-1	PLM-9002	<1	Moderate amounts of vermiculite observed at center subsample location, and 100' south of center, and no visible vermiculite 100' north of center
CS-20205	0-1	PLM-VE	<0.2	Field split of CS-20204
CS-20222	0-1	PLM-9002	<1	No visible vermiculite
CS-20223	0-1	PLM-VE	<0.2	Field split of CS-20222
CS-20224	0-1	PLM-9002	<1	No visible vermiculite
CS-20225	0-1	PLM-VE	<0.2	Field split of CS-20224
CS-20226	0-1	PLM-9002	<1	Trace amounts of vermiculite observed at all three subsample locations
CS-20227	0-1	PLM-VE	<0.2	Field split of CS-20226
CS-20228	0-1	PLM-9002	<1	Trace amounts of vermiculite observed 100' north and south center subsample location, and no visible vermiculite at center subsample
CS-20229	0-1	PLM-VE	<0.2	Field split of CS-20228
CS-20230	0-1	PLM-9002	<1	No visible vermiculite
CS-20231	0-1	PLM-VE	<0.2	Field split of CS-20230
CS-20232	0-1	PLM-9002	ND	No visible vermiculite
CS-20233	0-1	PLM-VE	<0.2	Field split of CS-20232
CS-20234	0-1	PLM-9002	<1	Trace amounts of vermiculite observed at center subsample location and 100' north of center, and no visible vermiculite 100' south of center
CS-20235	0-1	PLM-VE	<0.2	Field split of CS-20234
CS-20236	0-1	PLM-9002	<1	No visible vermiculite
CS-20237	0-1	PLM-VE	<0.2	Field split of CS-20236
CS-20238	0-1	PLM-9002	<1	High amounts of vermiculite observed 100' north of center subsample location and trace amounts of visible vermiculite at center subsample and 100' south of center

Table 2-5 (continued) Summary of Soil Samples Collected Along Highway 37 in May 2005

CS-20239	0-1	PLM-VE	<0.2	Field split of CS-20238
CS-20240	0-1	PLM-9002	<1	Moderate amounts of vermiculite observed 100' south of center subsample location, trace amounts of visible vermiculite at center subsample, and no visible vermiculite 100' south of center
CS-20241	0-1	PLM-VE	<0.2	Field split of CS-20240

ND – non-detect

2.3 Soil Sample Processing and Analysis

Soil samples sent off site were prepared for PLM-VE analysis at the CSF in accordance with the CSF Soil Preparation Plan (CDM 2003d) or CSF Soil Preparation Plan, Revision 1 (CDM 2004), depending on the date of processing. After the soils were dried, sieved, and ground, samples were sent to one of five analytical labs and analyzed for LA asbestos using two techniques depending on the grain size: PLM-VE and PLM gravimetric (Syracuse Research Corporation [SRC] 2003). The coarse fraction is analyzed using a PLM gravimetric analysis and the fine fraction is analyzed using PLM-VE.

EPA is in the process of evaluating the accuracy and precision of each of these methods. However, based on EPA's performance evaluation study to date, PLM-VE results are currently being used to make project remediation decisions. For the purposes of this report, PLM-gravimetric results are not presented.

2.4 Comparison of Soil Samples Collected Along Highway 37

The twelve samples collected in the May 2005 sampling event confirmed the presence of LA asbestos. Table 2-6 shows the analytical results of the samples collected in May 2005 compared with the analytical results from the same relative location during the September 2003 sampling event.

Table 2-6 Comparison of 2003 and 2005 PLM-VE Soil Samples in Same Relative Locations Along Highway 37

2005 Sample Index ID	Depth (inches bgs)	LA asbestos (%)	2003 Sample Index ID	Depth (inches bgs)	LA asbestos (%)
CS-20203	0-1	<0.2	CS-16880	0-6	<1
CS-20205	0-1	<0.2	CS-16874	0-6	non-detect
CS-20223	0-1	<0.2	CS-17160	0-6	<0.2
CS-20225	0-1	<0.2	CS-17157	0-6	<0.2
CS-20227	0-1	<0.2	CS-17151	0-6	<0.2
CS-20229	0-1	<0.2	CS-17150	0-6	<0.2
CS-20231	0-1	<0.2	CS-17145	0-6	<0.2
CS-20233	0-1	<0.2	CS-17140	0-6	<0.2
CS-20235	0-1	<0.2	CS-17138	0-6	<0.2
CS-20237	0-1	<0.2	CS-17134	0-6	<0.2
CS-20239	0-1	<0.2	CS-17130	0-6	<1
CS-20241	0-1	<0.2	CS-17127	0-6	<0.2

Section 3

Quality Assurance/Quality Control

CDM has established a formal quality assurance program to ensure consistently high quality project deliverables. For work conducted by CDM in Libby, quality assurance/quality control (QA/QC) measures include the collection of QC samples (such as soil duplicate samples and equipment blanks), implementation of a laboratory quality assurance program, review of project reports by a CDM-approved quality assurance staff member, and an auditing component to assess the effectiveness of the quality assurance program. The following sections describe deviations from the SAP Addendum and the implications of those deviations on project or data quality objectives.

3.1 Deviations from the Sampling and Analysis Plan Addendum

Two samples were collected from the cleared areas in the forested section of the Park Site, however three samples were selected in the SAP Addendum to be collected from the cleared areas. The third sample was inadvertently not collected.

Two samples were collected beyond Rainy Creek Road to further delineate the contamination south of Rainy Creek Road, however the SAP Addendum called for samples to only be collected up to the north side of Rainy Creek Road. All other requirements in the SAP Addendum were met without exception.

All air and soil samples collected during the May 2005 sampling event were outside the scope of the Final Sampling and Analysis Plan Addendum for J. Neils Park and State Highway 37 (CDM 2003b). Air samples were collected in accordance with the Final Draft Removal Action Work Plan (CDM 2003c). Soil samples were collected from locations approximating sample locations of the September 2003 sampling event using protocols outlined in the Final Sampling and Analysis Plan Addendum for J. Neils Park and State Highway 37 (CDM 2003b).

3.2 Achievement of Data Quality Objectives

The data quality objectives of this investigation were met.

3.3 Data Validation and Reporting

None of the analytical data contained in this report was further validated beyond that performed by the laboratory as part of their QA/QC program. Therefore, it is assumed that the raw data are useable for their intended purpose, which is to determine the extent of LA asbestos contamination at the Park Site and Highway Site.

Section 4

References

CDM 2003a. Final Sampling and Analysis Plan, Remedial Investigation, Contaminant Screening Study, Revision 1. May

_____. 2003b. Final Sampling and Analysis Plan Addendum for J. Neils Park and State Highway 37. July.

_____. 2003c. Final Draft Response Action Work Plan, Libby Asbestos Project, Libby, Montana. November.

_____. 2003d. Close Support Facility, Soil Preparation Plan, Libby, Montana Asbestos Project, Sample Processing. April.

_____. 2004. Close Support Facility, Soil Preparation Plan, Revision 1, Libby, Montana Asbestos Project, Sample Processing. March.

SRC. 2003. Analysis of Asbestos Fibers in Soil by Polarized Light Microscopy. SRC-LIBBY-03 (Rev. 0). March 3, 2003.

Figures

Map File name: figure 1-1Hww37NP Site Location Map Rev2.mxd



Figure 1-1

Site Location Map
J. Neils Park and Highway 37
Libby, Montana





Legend	
	Grid
	Site Boundary
	Horse Path
	Walking Path
	Access Roads
	Buildings
	Existing Parking Area
	Horse Arena
	Remote Control Area
	Ice Rink
	Soccer Field

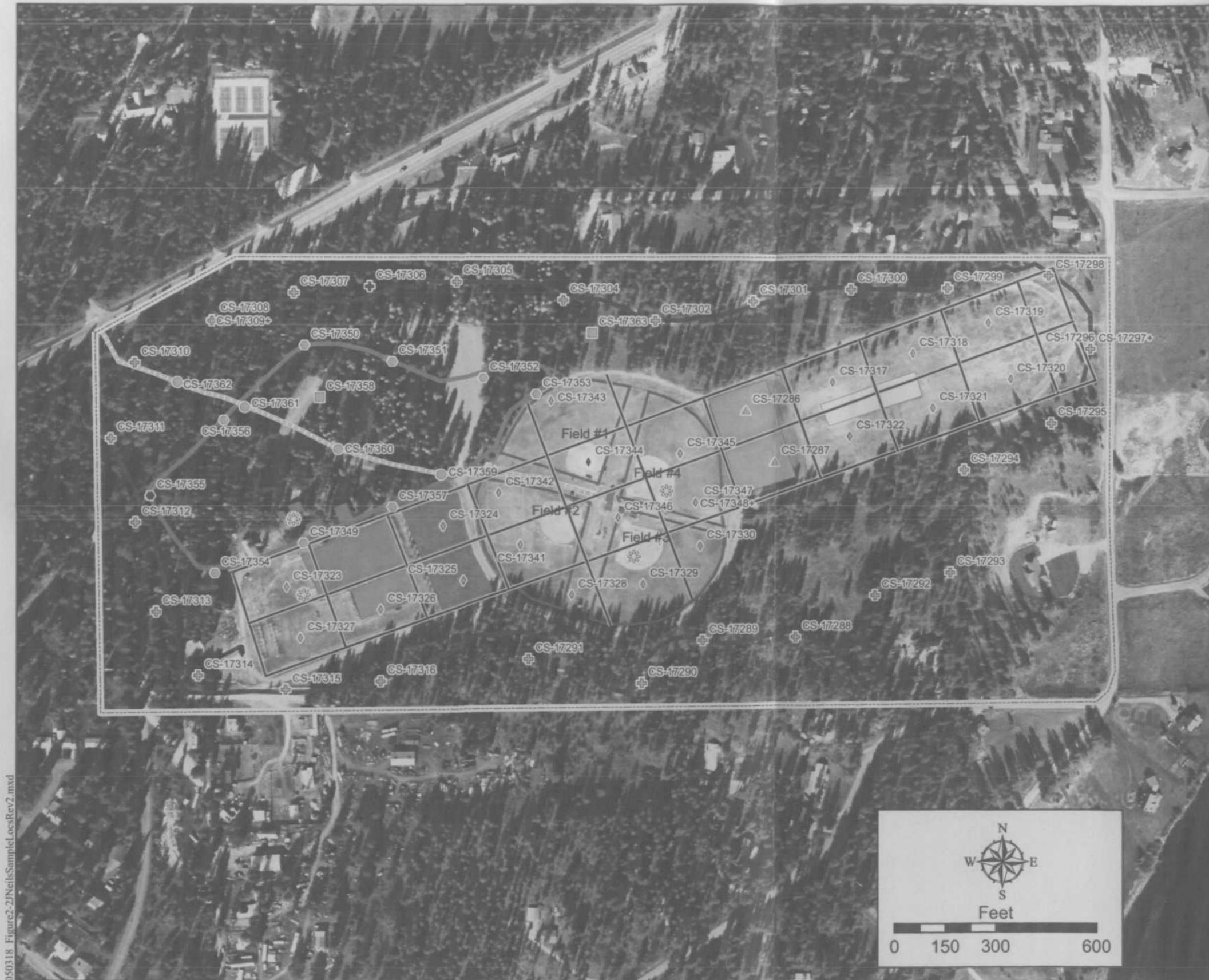


Figure 2-1

Site Feature Map
 J. Neils Park
 Libby, Montana



050318 Figure2-1\JNeilsSiteFeature.mxd KS 3/18/05



050318 Figure 2-2\NeilsSampleLocsRev2.mxd

Legend

- Site Boundary
- Horse Path
- Walking Path
- Access Roads
- Sampling Grid
- Baseball Infield/Outfield Outline
- Building
- Existing Parking Area
- Horse Arena
- Ice Rink
- Remote Control Area
- Soccer Field
- ☼ Visible Vermiculite (Observed in August 2002)
- + Indicates duplicate sample collected

Results by Area

- ND, Access Road
- ▲ ND, Air field
- ND, Forested Area
- ND, Horse Path
- ◆ ND, Former Air Field
- ⊕ ND, Walking Path
- TR, Horse Path
- ◆ TR, Former Air Field
- ⊕ TR, Walking Path

ND = Non Detect
TR = Trace (<0.2% LA)

Figure 2-2
 Soil Sample Locations and Results Map
 September 2003 Sampling Event
 J. Neils Park
 Libby, Montana
CDM



- Legend**
- Horse Path
 - Walking Path
 - Access Roads
 - Ball Field Outline
 - Building
 - Existing Parking Area
 - Soccer Field

March 2005 Soil Sample Results

- Non Detect
- Trace (<0.2% LA)
- < 1% LA



Figure 2-3

Soil Sample Locations and Results Map for
March 2005 Sampling Event
J. Neils Park
Libby, Montana





Legend

Air Sample Results

- ▲ Non-Detect

Surface Soil Sample Results (0-1")

- Trace LA (<0.2%)

----- J. Neils Park Boundary

Level Vermiculite Observed

- Trace
- ⊗ Moderate
- ⊗ High

N
W E
S

Feet

0 750 1,500 3,000

1 inch equals 2,000 feet

Figure 2-4

Air and Soil Sample Locations and Results Map
 May 2005 Sampling Event
 Montana State Highway 37
 Libby, Montana

CDM

Document: M:\2003\Voice\029_Rights\GIS\05050111_Figure2_SiteMap.mxd
 Date: 5/11/05 10:51 AM
 User: jls

050318 Figure2-4highway37Samp.mxd KS 8/11/05



Legend

Surface Soil Sample Results (0-6")

- Non Detect
- Trace LA (<0.2%)
- < 1% LA

----- J. Neils Park Boundary

Level Vermiculite Observed

- ⊛ High
- ⊙ Moderate
- ⊙ Trace
- Flake

+ Indicates duplicate sample collected

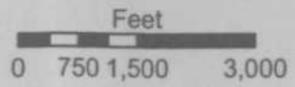


Figure 2-5
Soil Sample Locations and Results Map
September 2003 Sampling Event
Montana State Highway 37
Libby, Montana

CDM

Appendix A
Information Field Form for J. Neils Park

8/7/02

8/6/02

VOID BD

Soil samples collected (Date: _____)

LIBBY ASBESTOS PROJECT
Contaminant Screening Study
Primary Structure and Property Assessment Information Field Form

Field Logbook No.: 100096 Page No.: 98 Site Visit Date: 8-6-02
 Address: J NEILS PARK HWY 37 N Structure Description: J NEILS PARK
 Occupant: CAROL ANN PELTIER Phone Number: 293-7781 x 238
 Owner (if different than occupant): LINCOLN COUNTY PARKS Phone Number: 293-7781 x 238
 Sampling Team: GWEN POZEGA, TOM VANDERWEEL CDM
 Field Form Check Completed by (100% of forms): Gwen D. Pozega CDM
 Screening Field Check Completed by (2% of forms): _____

Data Item	Value	Notes
HOUSE ATTRIBUTES		
Property Description	Residential Industrial Commercial	<u>COUNTY PARK</u>
Surrounding Land Use	<u>Residential</u> Industrial <u>Commercial</u> School Mining Other: _____	
Year of Construction	<u>1994-1995</u> Unknown	
Square Footage	<u>100 ACRES - 72.5 ACRES, 22.5 ACRES OFF CHAMPION HALL RD</u>	
Construction Material	<u>Wood frame</u> Masonry/Stone Other: <u>METAL</u>	<u>BUILDINGS ON PARK LAND</u>
Number of Floors Above Ground	1 2 3 Other: <u>NA</u>	
Number of Rooms Per Floor Above Ground	1: _____ 2: _____ 3: _____ Other: <u>NA</u>	
Basement	Yes <u>No</u>	
Heating Source	Wood/Coal Electric Propane/Gas Other: <u>SUN</u>	
Heat Distribution	Forced air <u>Radiant</u> Other: _____	

(ROBERT)
 GROUNDSKEEPER

GP
 8/7/02

Address: HWY 37 N

BD# _____

Data Item	Value	Notes
OCCUPANT INFORMATION		
Number of Adults/Employees	0 1 2 3 4 5-15 16-20 21-30 >30	VARIES
Number of Children	0 1 2 3 4 Other: _____	VARIES
Years at Location	<1 1-5 <u>5-10</u> 10-15 >15	8 YRS.
Was the residence/building remodeled?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
	If yes, When (years): <2 2-5 >5 Where: Attic Living Areas Garage Basement Other: _____	
Has resident/business purchased any Libby vermiculite materials from W.R. Grace in the past?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Are there any known areas of exposed vermiculite?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
	If yes, Where: Ceiling Walls Floors Attic Other: _____	

Address: Hwy 37 N.

BD# _____

Data Item	Value	Notes
INDOOR ASSESSMENT		
Vermiculite Insulation Past or Present	Attic: Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> Unknown Walls: Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> Unknown Basement: Yes <input type="radio"/> No <input checked="" type="radio"/> NA <input type="radio"/> Unknown Crawl Space: Yes <input type="radio"/> No <input checked="" type="radio"/> NA <input type="radio"/> Unknown Other: _____	Visual confirmation of current presence or absence required for attic.
Evidence of Physical Damage?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Evidence of Water Damage?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
OUTDOOR ASSESSMENT		
Libby Amphibole Sources Present	Garden: Yes <input type="radio"/> No <input checked="" type="radio"/> NA <input type="radio"/> Yard: Yes <input checked="" type="radio"/> No <input type="radio"/> NA <input type="radio"/> Stockpiles: Yes <input type="radio"/> No <input checked="" type="radio"/> NA <input type="radio"/> Other: <u>BALLFIELDS #3 + #4</u>	BETWEEN BATHROOMS + PLAYGROUND, ENTRANCE TO HORSE ARENA. TRACE VERMICULITE
Proximity to Other Properties with Potential Sources of Libby Amphiboles	Next door Within same block Other: _____ <input checked="" type="radio"/> Unknown	OBSERVED

Address: Hwy 37 N.

BD# _____

Data Item	Value	Notes
EXPOSURE ASSESSMENT		
Type and Frequency of Activity Near Vermiculite Material - Indoor	Frequency: <ul style="list-style-type: none"> Once a day Once a week Once a month Once a year <u>Not Applicable</u> Duration of Contact: <ul style="list-style-type: none"> <1 hour 1-2 hours 2-4 hours >4 hours <u>Not Applicable</u> Extent of Contact: <ul style="list-style-type: none"> Heavy Moderate Light <u>Not Applicable</u> 	Not Applicable applies when no vermiculite is present on the property.
Type and Frequency of Activity Near Vermiculite Material - Outdoor	Frequency: <ul style="list-style-type: none"> <u>UNKNOWN</u> Once a day Once a week Once a month Once a year Not Applicable Duration of Contact: <ul style="list-style-type: none"> <u>UNKNOWN</u> <1 hour 1-2 hours 2-4 hours >4 hours Not Applicable Extent of Contact: <ul style="list-style-type: none"> <u>UNKNOWN</u> Heavy Moderate Light Not Applicable 	Not Applicable applies when no vermiculite is present on the property. COUNTY PARK. MANY USERS -

Address: Hwy 37 N.

BO# _____

Data Item	Value	Notes
CONTAMINANT SCREENING STUDY ASSESSMENT		
Occupant Information		
Is there any knowledge of former miners, close relative of miners, or any highly exposed persons living or <u>visiting</u> the property?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	
Is the resident, past or present, diagnosed with an asbestos related disease?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown <i>N/A</i>	NO RESIDENTS
Indoor Information		
Does the interior have Zonolite attic insulation?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	
Did the interior ever have Zonolite attic insulation?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown NA	NA applies if attic currently has ZAI.
Are there vermiculite additives in any of the building materials?	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Unknown	NONE OBSERVED
Outdoor Information		
Is there any evidence of primary source materials <u>at</u> or near the property?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	TRACE AMOUNTS
Could this have been tracked indoors or otherwise spread outdoors on the property?	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown	
Overall Assessment		
Are primary source materials present at the property?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Where are primary source materials located?	<input type="radio"/> Inside <input checked="" type="radio"/> Outside <input type="radio"/> Both NA	
ADDITIONAL INFORMATION _____ _____ _____ _____		

Address: Highway 37N

BD# _____

FIELD DIAGRAM OF PROPERTY

Identify important features (i.e. drainage, trees, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc).

NOT TO SCALE

SEE ATTACHED MAP

Address: Highway 37 N

BD# _____

FIELD DIAGRAM OF PRIMARY STRUCTURE

Floor of House (circle): First Second Third Basement

Include approximate dimensions of rooms and floor covering type. Use more than one diagram if needed. Completed only if ZAI is present.

Scale: 1/10" = 1 foot

98

Location J. Neils Park Hwy 37N Date 8/6/02

Project / Client VOLPE/EPA

LINCOLN COUNTY PARKS AND RECREATION BD001365
CAROL ANN PELTIER (DIRECTOR)

1300- Met with CAROL ANN PELTIER AT
SITE. COMPLETE BD- 001365 CONSENT FORM AND
INFORMATION FIELD FORM. ASSIGN FIELD FORM
BD# 001365. BUILDINGS ON SITE ARE NOT INSULATED
EXCEPT FOR BASEBALL FIELD CONCESSION STAND.
BASEBALL FIELD CONCESSION STAND DOES NOT HAVE
LVAI. WALKING PATH, HORSE TRAIL, SKATING RINK,
BALL FIELDS, HORSE ARENA, SOCCER FIELD, R/C
FIELD, PARKING AREAS AND PLAYGROUND AREAS
WERE WALKED AND CANVASED FOR VERMICULITE.
VERMICULITE WAS OBSERVED IN TRACE AMOUNTS
ON TWO BALLFIELDS AND A PLAYGROUND
BY SERVICE AREAS AND AT SOUTH ENTRANCE
TO HORSE ^{SEP 24/02} ~~CONCRETE~~ ARENA PHOTO TAKEN AND
^{MAP} PICTURE OF PARK OBTAINED FROM LINCOLN
COUNTY.

Kevin D. Payne
8/6/02

106

Location J NEILS PARK Hwy 37N Date 8/7/02

Project / Client VOLPE/EPA

LATE ENTRY AD 000680

LATE ENTRY FOR PAGE #98 FIELD BOOK
#100096. AD-000680 BO#00365 VOIDED AND
J. NEILS PARK ASSIGNED AD#000680. THIS
IS DUE TO THE PARK BEING OWNED BY
LINCOLN COUNTY. NO ACTUAL PHYSICAL
ADDRESS FOR PARK STRUCTURES ON SITE
DO NOT CONTAIN LVAH

Handwritten signature and date:
D. [unclear]
8/7/02

= VERMILITE
OBSERVED

J. NEELS PARK HWY 37 N

HIGHWAY 37

RESIDENTIAL AREA

WALKING PATH

HORSE PATH

PROPOSED
PARKING
AREA

BALL FIELDS

SOCCER
FIELD

R/C FIELD

GROUND

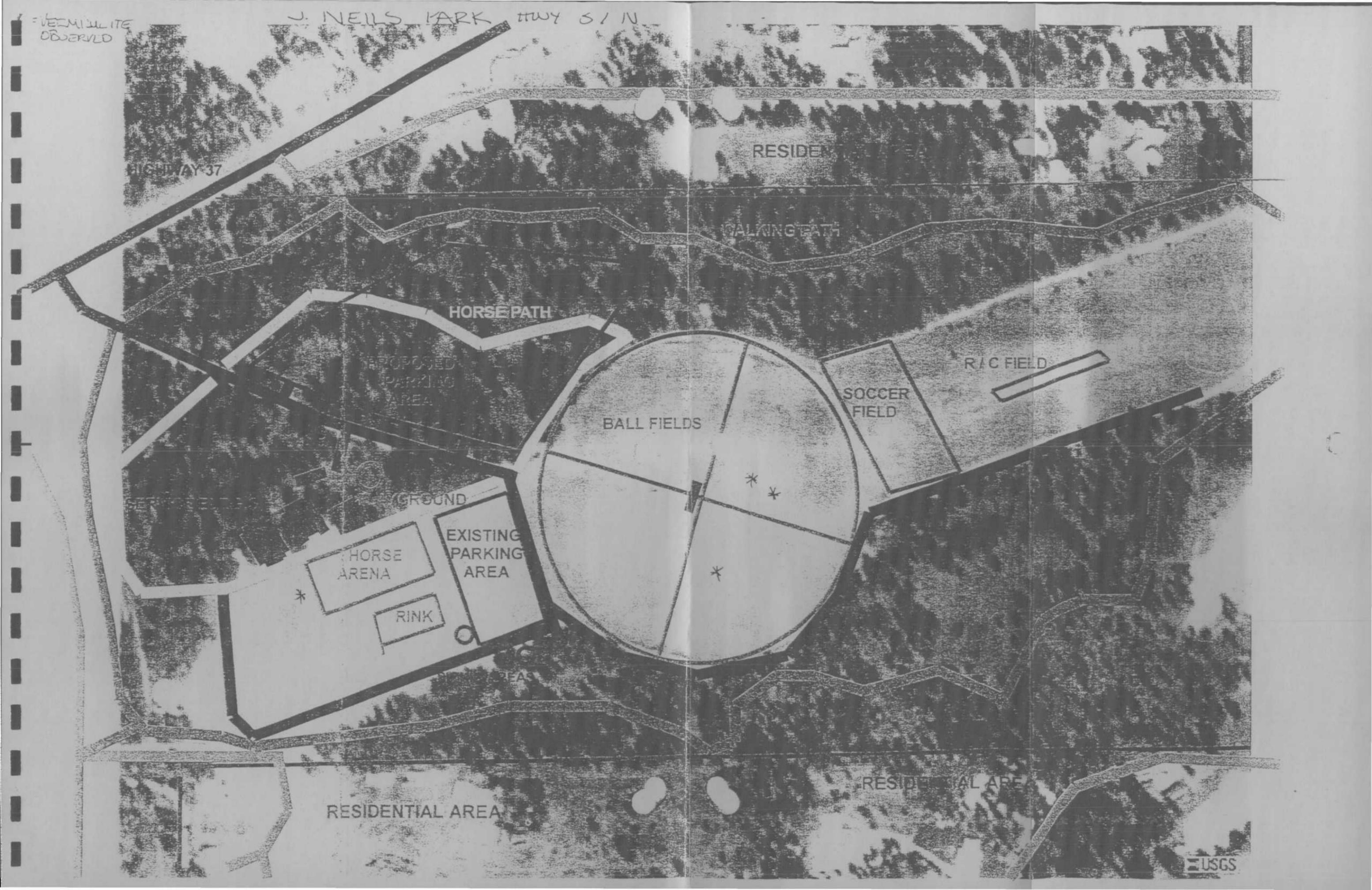
HORSE
ARENA

EXISTING
PARKING
AREA

RINK

RESIDENTIAL AREA

RESIDENTIAL AREA



Appendix B
Logbook Pages for J. Neils Park
Sampling Events

Location J NEILS PARK Hwy 37 N Date 9/19/03 87

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8
Lincoln County Parks - AD-000680

0930 Arrive @ J. Neils Park -
Soccer - mark locations SG-7 &
SG-14 - sample grids on soccer
fields. M 9/19/03

0952
SG-7 CS-17286 ~~11/14~~ SP-123669

FIELD DATA SHEET - 005837 - 3 PT -

0957
SG-14 CS-17287 ~~11/14~~ SP-123670

FIELD DATA SHEET - 005837 - 3 PT -

NO L.V. OBSERVED @ SAMPLE LOCATION
SG-7 OR SG-14. M 9/19/03

GPS ID - T4A09193 - FOR SG-7, SG-14

LOSS of ~~1030~~ START MARKING
WALKING PATH LOCATIONS - and SAMPLING

1042
WP-21 CS-17288 ~~11/14~~ SP-123671

FIELD DATA SHEET - 005837

NO L.V. OBSERVED @ LOCATION WP-21

051
WP-20 CS-17289 ~~11/14~~ SP-123672

FIELD DATA SHEET - 005837 - 38

NO L.V. OBSERVED @ LOCATION WP-20

2 - ROBERT HUNY, 9/19/03

Location J. NEILS PARK Hwy 37 Date 9/19/03

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8
Lincoln County Parks M-000680

(1104)

WP-19 CS-17290 SP-123673

FIELD DATA SHEET - 005838

NO L.V. OBSERVED @ LOCATION WP-19

(1117)

WP-18 CS-17291 SP-123674

FIELD DATA SHEET - 005838

NO L.V. OBSERVED @ LOCATION WP-18

(1119)

WP-22 CS-17292 SP-123675

FIELD DATA SHEET - 005839

NO L.V. OBSERVED @ LOCATION WP-22

(1137)

WP-23 CS-17293 SP-123676

FIELD DATA SHEET 005839

NO L.V. OBSERVED @ LOCATION WP-23

(1141)

WP-24 CS-17294 SP-123677

FIELD DATA SHEET - 005839

NO L.V. OBSERVED @ LOCATION WP-24

(1322)

WP-25 CS-17295 SP-123678

FIELD DATA SHEET 005840

NO L.V. OBSERVED @ LOCATION WP-25

- ROBERT HUNT - 9/19/03

Location J. NEILS PARK Hwy 37 Date 9/19/03 89

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8
Lincoln County Parks M-000680

(1324)

WP-26 CS-17296 SP-123679

FIELD DATA SHEET 005840

NO L.V. OBSERVED @ LOCATION WP-26

(1329)

WP-26-BP CS-17297 SP-123679

FIELD DATA SHEET 005840

NO L.V. OBSERVED @ LOCATION WP-26-BP

(1343)

WP-1 CS-17298 SP-123680

FIELD DATA SHEET 005841

NO L.V. OBSERVED @ LOCATION WP-1

(1351)

WP-2 CS-17299 SP-123881

FIELD DATA SHEET 005841

NO L.V. OBSERVED @ LOCATION WP-2

(1359)

WP-3 CS-17300 SP-123882

FIELD DATA SHEET 005842 005841

NO L.V. OBSERVED @ LOCATION WP-3

(1416)

WP-4 CS-17301 SP-123883

FIELD DATA SHEET 005843 005841

NO L.V. OBSERVED @ LOCATION WP-4

- ROBERT HUNT 9/19/03

90

Location J. News Park Hwy 37 Date 9/19/03

Project / Client LIGHT ASBESTOS / U.S EPA REGION 8

LINCOLN COUNTY PARKS AD-000680

1419

WPS CS-17302 ^{flat} SP-123884

FIELD DATA SHEET 005859

NO LV. OBSERVED @ LOCATION

9/19/03

Robert Houshold

Location J NEILS PARK / HIGHWAY 37 Date 9/20/03⁹³
Project / Client LIBBY ASBESTOS / U.S. EPA REGION 6
LINCOLN COUNTY PARKS AD 000680

0905 - Arrive @ J. NEILS PARK -
CONTINUE WITH SOIL SAMPLING ON
WALKING PATH. MARK THE REST
OF THE WALKING PATH LOCATIONS.

0922
WP₆ CS-17304 ^{check} SP-123885
FIELD DATA SHEET 005860

0933
WP₇ CS-17305 ^{check} SP-123886
FIELD DATA SHEET 005860

0944
WP₈ CS-17306 ^{check} SP-123887
FIELD DATA SHEET 005860

* NO L.V. OBSERVED @ WP₆ WP₇ WP₈

0957
WP₉ CS-17307 ^{check} SP-123888
FIELD DATA SHEET 005862

1001
WP₁₀ CS-17308 ^{check} SP-123889
FIELD DATA SHEET 005862

1007
WP₁₀ CS-17309 ^{check} SP-123889
FIELD DATA SHEET 005862

NO L.V. OBSERVED @ WP₉ + WP-10
- ROBERT HUNT - 9/20/03

Location J. NEWS PARK Date 9/20/03
 Project/Client LIBBY ASBESTOS / U.S. EPA Region 8
LINCOLN County Parks AD-G00680

1019
 WP-11 CS-17310 SP-123890
 FIELD DATA SHEET 0058623-3PT
 1024
 WP-12 CS-17311 SP-123891
 FIELD DATA SHEET 0058623-3PT
 1032
 WP-13 CS-17312 SP-123892
 FIELD DATA SHEET 0058623-3PT
 * NO L.V. @ LOCATIONS WP-11 WP-12 WP-13
 1052
 WP-14 CS-17313 SP-123893
 FIELD DATA SHEET 005864-3PT
 1104
 WP-15 CS-17314 SP-123894
 FIELD DATA SHEET 005864-3PT
 1112
 WP-16 CS-17315 SP-123895
 FIELD DATA SHEET 005864-3PT
 1119
 WP-17 CS-17316 SP-123896
 FIELD DATA SHEET 005865-3PT
 NO L.V. @ LOCATION WP-14, WP-15, WP-16, & WP-17
 1125 - FINISHED SAMPLING WALKING BATTY
 - ROBERT HUNT - 9/20/03

Location J. NEWS PARK Date 9/20/03
 Project/Client LIBBY ASBESTOS / U.S. EPA Region 8
LINCOLN County Parks AD-G00680

GPS ID 74A09203 9/20/03
 1130 - 502 STREET MARKING
 GRID LOCATIONS (MODEL MR RANE FIELD)
 - LOCATE GRID LOCATIONS 8, 9, 10, 11
 12 + 13 WITH TRIPPER GPS UNIT.
 1302 CS-17317 SP-123897
 GRID 8: CS-17317 SP-123897
 FIELD DATA SHEET 005865
 1309 CS-17318 SP-123898
 GRID 9 CS-17318 SP-123898
 FIELD DATA SHEET 005865
 1314 CS-17319 SP-123899
 GRID 10 CS-17319 SP-123899
 FIELD DATA SHEET 005866
 1317 CS-17320 SP-123900
 GRID 11 CS-17320 SP-123900
 FIELD DATA SHEET 005866
 1329 CS-17321 SP-123901
 GRID 12 CS-17321 SP-123901
 FIELD DATA SHEET 005866
 1334 CS-17322 SP-123902
 GRID 13 CS-17322 SP-123902
 FIELD DATA SHEET 005867
 NO L.V. OBSERVED @ LOCATIONS GRID 8,
 9, 10, 11, 12, & 13
 - ROBERT HUNT - 9/20/03

Location J. NEILS PARK Date 9/20/03

Project/Client LIBBY ASBESTOS / U.S. EPA REGION 8

Lincoln County PARK AD-000680

1400 - MARK GRID LOCATIONS 2, 3, 18, 19, 20 WITH TRIANGLE GPS UNIT on 9/20/03

(1401) GRID 2 CS-17323 SP-123903

FIELD DATA SHEET 005867 - SAT

(1417) GRID 3 CS-17324 SP-123904

FIELD DATA SHEET 005867 - SAT

(1439) GRID 18 CS-17325 SP-123905

FIELD DATA SHEET 005867 005868

(1423) GRID 19 CS-17326 SP-123906

FIELD DATA SHEET 005868 - SAT

(1419) GRID 20 CS-17327 SP-123907

FIELD DATA SHEET 005868 - SAT

* NO L.V. OBSERVED @ LOCATIONS G2, G3, G18, G19, G20 on 9/20/03

GPS ID - T4809203 on 9/20/03

1500 - MOBILIZE TO BALL FIELDS - MARK GRID LOCATIONS 21, 22, 23 on 9/20/03

ROBERT HUNT 9/20/03

Location J. NEILS PARK Date 9/20/03 97

Project/Client LIBBY ASBESTOS / U.S. EPA REGION 8

Lincoln County PARKS AD-000680

(1515) GRID 21 CS-17328 SP-123908

FIELD DATA SHEET 005863 005869

(1519) GRID 22 CS-17329 SP-123909

FIELD DATA SHEET 005863 005869

(1527) GRID 23 CS-17330 SP-123910

FIELD DATA SHEET 005863 005869

* NO L.V. OBSERVED @ LOCATIONS G23, G24 on 9/20/03

GPS ID - T4809203 on 9/20/03

1545 - FINISHED @ J. NEILS PARK FOR THE DAY on 9/20/03

ROBERT HUNT 9/20/03

Location CDM OFFICE

Date 9/20/03

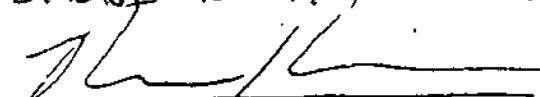
Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

1550 - Arrive back e CDM OFFICE
 BEGIN ^{9/20} END OF DAY ^{ACTIVITIES} ~~ACTIVITIES~~ ^{9/20}
 checking paperwork, daily reports,

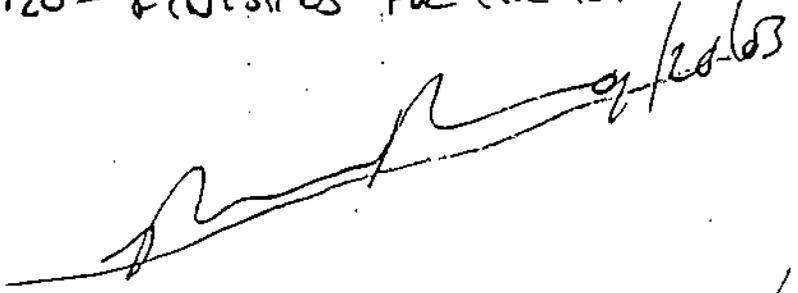
SSS - COLLECT EQUIPMENT BANK
 FROM SUGAR SAND LOT #229

CS-17331 ^{9/20} BD-002015

(1710) - Relinquish samples ON FIELD
 DATA SHEETS 005860, 005862
 005863, 005864, 005865
 005866, 005867, 005868
 005869, 005871 to secure sample
 STORAGE ROOM. ^{9/20/03}

 Robert HUNT
 * Soil sampling ~~equipment~~ equipment was
 cleaned with acetone ^{9/20/03}

1720 - FINISHED FOR THE DAY

 Robert HUNT 9/20/03

Location CDM OFFICE

Date 9/22/03 99

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8

NOTETAKER: ROBERT HUNT ^{9/22/03}

PERSONNEL: CDM-BOB HUNT + DANNY ZIMMERMAN ^{9/22/03}

RUN WORK ^{9/22/03}

WEATHER: partly cloudy + cold -

(37° - 0730) - forecast - high

of 70° - partly cloudy ^{9/22/03}

PPE: Level 10 modified ^{9/22/03}

INSTRUMENTS: TRIMBLE GPS UNIT ^{9/22/03}

CALIBRATION: NA ^{9/22/03}

ACTIVITIES: soil sampling e J. NEWS ^{9/22/03}

PARK in accordance with document

CONTAMINANT SCREENING STUDY LIBBY

ASBESTOS SITE, OPERABLE UNIT 4 ^{9/22/03}

J. NEWS Hwy 37 ^{9/22/03}

0730 - Arrive onsite e CDM OFFICE

0800 - Arrive ~~at~~ ^{ACTIVITIES} ~~at~~ ^{ACTIVITIES}

checking paperwork ^{9/22/03}

equipment, etc. ^{9/22/03}

0900 - Morning RI meeting ^{9/22/03}

0930 - Arrive e J. NEWS PARK

MARK LOCATIONS SG 17, SG 16, SG 15

SG 4, SG 5, SG 6, SG 11 - TRIMBLE

GPS UNIT - NOT WORKING K PDOP HIGH

USING SCALE ON AERIAL PHOTO ^{9/22/03}

02 - ROBERT HUNT 9/22/03

Location J. NEWS PARK Date 9/22/03
Project Client LIBBY ASBESTOS / U.S. EPA Region 8
Lincoln County Parks AD-000600
M 9/22/03

OFF LOCATIONS.

(0941) SG 17 CS-17341 SP-123921
FIELD DATA SHEET 005872 - 5PT

(0943) SG 4 CS-17342 SP-123922
FIELD DATA SHEET 005872 - 5PT

(0947) SG 1 CS-17343 SP-123923
FIELD DATA SHEET 005872 - 5PT

(1013) SG 5 CS-17344 SP-123924
FIELD DATA SHEET 005873 - 5PT

(1033) SG 6 CS-17345 SP-123925
FIELD DATA SHEET 005873 - 5PT

(1031) SG 16 CS-17346 SP-123926
FIELD DATA SHEET 005873 - 5PT

(1034) SG 18 CS-17347 SP-123927
FIELD DATA SHEET 005901 - 5PT

NO LID COVERS ON ALL FIELDS
GPS ID - T4A09223
ROBERTS HUNT - 9/22/03

Location J. NEWS PARK Date 9/22/03
Project Client LIBBY ASBESTOS / U.S. EPA Region 8
Lincoln County Parks AA-000600

(1102) SG 15-DP CS-17348 SP-123927
FIELD DATA SHEET 005901

110 - HEAD BACK TO OFFICE TO
PICK UP SUPPLIES - PAPER ROLLS,
BAGS, & PIN FLAGS - NO PIN
FLAGS @ OFFICE. HEAD TO ACE
TO BUY PIN FLAGS - 9/22/03

1130 - BACK @ J. NEWS
PARK - MARK HURX PATH & ACCESS ROAD
1305-1335 - LUNCH 9/22/03

(1357) HP 4 CS-17350 SP-123929
FIELD DATA SHEET 005902 - 3PT

(1407) HP 3 CS-17351 SP-123930
FIELD DATA SHEET 005902 - 3PT

(1404) HP 2 CS-17352 SP-123931
FIELD DATA SHEET 005903 - 3PT

(1358) HP 8 CS-17349 SP-123928
FIELD DATA SHEET 005901 - 2PT

ROBERT HUNT 9/22/03

J. NEWS PARK 7/22/03
LIBBY ASBESTOS / U.S. EPA Region 8
Lincoln County Park ADDRESS BLK 10
AD-005900

(1426) CS-17353 SP-123932
AP₁
FIELD DATA SHEET 005903 - 3PT

(1447) CS-17354 SP-123933
HP₂₋₇
FIELD DATA SHEET 005903 - 3PT

(1439) CS-17355 SP-123934
HP₆
FIELD DATA SHEET 005903 - 3PT

(1441) CS-17356 SP-123935
HP₅
FIELD DATA SHEET 005903 - 3PT

(1445) CS-17357 SP-123936
HP₉
FIELD DATA SHEET 005904

* NO L.V. OBSERVED WHILE WORKING
THE HORSE PATH

(1451) CS-17358 SP-123937
RP₁
FIELD DATA SHEET 005904 - 5PT

(1501) CS-17359 SP-123938
AR₄
FIELD DATA SHEET 005905 - 3PT

ROBERT HUNT - 7/22/03

J. NEWS PARK 7/22/03
LIBBY ASBESTOS / U.S. EPA Region 8
Lincoln County Park ADDRESS BLK 10
AD-005900

(1504) CS-17360 SP-123939
AR₃
FIELD DATA SHEET 005905 - 3PT

(1511) CS-17361 SP-123940
AR₂
FIELD DATA SHEET 005905 - 3PT

(1510) CS-17362 SP-123941
AR₁
FIELD DATA SHEET 005906 - 3PT

(1534) CS-17363 SP-123942
RP₂
FIELD DATA SHEET 005906 - 5PT

* NO L.V. OBSERVED @ LOCATIONS
RP₁, AR₁, AR₃, AR₂, AR₁, + RP₁ 7/22/03
GPS FILES FOR RP₂, HP₁, AR₁

(T4B0223) (T4B0223) - on 7/22/03
1650 - FINISHED @ J. NEWS PARK -
FINISHED COLLECTING SOIL SAMPLES

ROBERT HUNT - 7/22/03

112

Location J Neils Park Date 3-8-05
 Project Client Libby Asbestos US EPA Region 8
Lincoln County Parks AD-000680

1330: Arrive to collect soil samples from the 4 ball fields. B. Shoup (author) + T. Sesti onsite. All work IAW CSS SAP REVISION 1, 2003. North ball field samples on FSDS-000633 include:

CS-20062	CS-20063	CS-20064
SP-125759	SP-125760	SP-126253

East ball field sample on FSDS-000634 include:

CS-20065	CS-20066	CS-20067
SP-126254	SP-126255	SP-126256

South ball field samples on FSDS-000635 include:

CS-20068	CS-20069	CS-20070
SP-126257	SP-126258	SP-126259

West ball field samples on FSDS-000636 include:

CS-20071	CS-20072	CS-20073
SP-06260	SP-126550	SP-126551

No LV observed while sampling. Level D modified PPE. Weather is 52°F + overcast.

1530: Finished onsite. AS 3-8-05

1545: Relinquish samples to Patty Kari
 GPS file TSA03085

ASLP

3-8-05

Appendix C
Field Sample Data Sheets for J. Neils Park
Sampling Events

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 27 Sampling Date: 9/19/03

Address: J. NEILS PARK ~~00091903~~ Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZIMBARDI / RICH EUSTICE
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17286	CS- 17287	CS- 17288
Location ID	SP- 123669	SP- 123670	SP- 123671
Sample Group	<u>PARK (SG-7)</u>	<u>PARK (SG-14)</u>	<u>PARK (WP-21)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>Sample 6210 SG 7</u>	Back yard Front yard Side yard Driveway Other <u>SAMPLE 6210 14</u>	Back yard Front yard Side yard Driveway Other <u>WALKING PATH - 21</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>0952</u>	<u>0957</u>	<u>1042</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD- AD-000680</u> CENTER - NO LIV. 75' N - NO LIV. 75' S - NO LIV. 75' E - NO LIV. 75' W - NO LIV.	<u>BD- AD-000680</u> CENTER - NO LIV. 75' N - NO LIV. 75' S - NO LIV. 75' E - NO LIV. 75' W - NO LIV.	<u>BD- AD-000680</u> CENTER - NO LIV. 10' N - NO LIV. 10' S - NO LIV.
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by AR QC by D.Z

DW
091903

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 10275 Page No: 87-88 Sampling Date: 9/19/03
 Address: J. News Park Hwy 37 Owner/Tenant: LINCOLN COUNTY PARKS
 Business Name: _____
 Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)
 Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZIMBRINS / RICH ELSHICE
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17289</u>	<u>CS- 17290</u>	<u>CS- 17291</u>
Location ID	<u>SP- 123672</u>	<u>SP- 123673</u>	<u>SP- 123674</u>
Sample Group	<u>PARK (WP 2)</u>	<u>PARK (WP 19)</u>	<u>PARK (WP 18)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other WALKING PATH 20</u>	Back yard Front yard Side yard Driveway <u>Other WALKING PATH 19</u>	Back yard Front yard Side yard Driveway <u>Other WALKING PATH 18</u>
Category (circle)	<u>FS</u> FD of _____ Field-Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other-wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1051</u>	<u>1109</u>	<u>1117</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments- Note if vermiculite is visible in sampled-area	<u>BB- AD-000680</u> Center - NO LIV 10' N - NO LIV 10' S - NO LIV	<u>BB- AD-000680</u> Center - NO LIV 10' N - NO LIV 10' S - NO LIV	<u>BB- AD-000680</u> Center - NO LIV 10' N - NO LIV 10' S - NO LIV
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>AM</u>	QC by <u>D.Z</u>
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DW
091903

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 110 275 Page No: 88 Sampling Date: 9/19/03

Address: J. NEILS PARK Hwy 37 DW 091903 Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt, Rich Evers
DANNY ZAMBANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17292	CS- 17293	CS- 17294
Location ID	SP- 123675	SP- 123676	SP- 123677
Sample Group	<u>PARK (WP-22)</u>	<u>PARK (WP-23)</u>	<u>PARK (WP-24)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u>	Back yard Front yard Side yard Driveway <u>Other</u>	Back yard Front yard Side yard Driveway <u>Other</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field-Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1119</u>	<u>1137</u>	<u>1141</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>Mg 1119</u> <u>BD- AD-00680</u> <u>Center - NO L.V.</u> <u>Center</u> <u>10' E - NO L.V.</u> <u>10' W NO L.V.</u>	<u>Mg 1137</u> <u>BD- AD-00680</u> <u>Center - NO L.V.</u> <u>10' E - NO L.V.</u> <u>10' W - NO L.V.</u>	<u>Mg 1141</u> <u>BD- AD-00680</u> <u>Center NO L.V.</u> <u>10' E NO L.V.</u> <u>10' W NO L.V.</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by M QC by D.Z

DW
091903

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 89-90 Sampling Date: 9/19/03
 Address: 151 NEIL PARK Hwy 37 ^{DW 091903} Owner/Tenant: LINCOLN COUNTY PARKS
 Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)
 Sampling Team: (circle) QDM MACTEC Other _____ Names: DANNY MARINO / RICH EW,
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17295</u> ✓	<u>CS- 17296</u> ✓	<u>CS- 17297</u> ✓
Location ID	<u>SP- 123678</u>	<u>SP- 123679</u>	<u>SP- 123679</u>
Sample Group	<u>PARK (WP 25)</u>	<u>PARK (WP 26)</u>	<u>PARK (WP 26 dup)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other WALKING PARK 25</u>	Back yard Front yard Side yard Driveway <u>Other WALKING PARK 26</u>	Back yard Front yard Side yard Driveway <u>Other WALKING PARK 26</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of <u>CS-17296</u> ^{9/22/03} _{p.s.} Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1322</u>	<u>1324</u>	<u>1329</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BB-AN-000680</u> Center - NO LV 10' E - NO LV 10' W - NO LV	<u>BB-AN-000680</u> Center - NO LV 10' E - NO LV 10' W - NO LV	<u>BB-AN-000680</u> Center - NO LV 10' E - NO LV 10' W - NO LV
Entered (LFO) _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by AN QC by D.Z

DW
091903

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 90-91 Sampling Date: 9/18/03

Address: J NEILS PARK Hwy 37 N (Owner) Tenant: Lincoln County Parks

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Rich Eustice / Danny Zimreno / Robert Hunt

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17298</u> ✓	<u>CS- 17299</u> ✓	<u>CS- 17300</u> ✓
Location ID	<u>SP- 123680</u>	<u>SP- 123881</u>	<u>SP- 123882</u>
Sample Group	<u>PARK (WP 1)</u>	<u>PARK (WP 2)</u>	<u>PARK (WP 3)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Walking Path 1</u>	Back yard Front yard Side yard Driveway <u>Other Walking Path 2</u>	Back yard Front yard Side yard Driveway <u>Other Walking Path 3</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1343</u>	<u>1351</u>	<u>1359</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BB-AD-000680 center - NO L.V. 10' N - NO L.V. 10' S - NO L.V.	BB-AD-000680 center - NO L.V. 10' N - NO L.V. 10' S - NO L.V.	BB-AD-000680 center - NO L.V. 10' N - NO L.V. 10' S - NO L.V.
Entered (LFO) <u>PS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RM QC by D.Z

DW 091903

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 89-90 Sampling Date: 9/19/03
 Address: 5 NEILS PARK ^{DW 091903} ~~100275~~ Owner/Denant: Lincoln County Parks
 Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)
 Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZIMMER
R. W. EUSRICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS-17301</u> CS-17301	<u>CS-17302</u>	
Location ID	<u>SP-123883</u>	<u>SP-123884</u>	
Sample Group	<u>PARK (WP 4)</u>	<u>PARK (WP 5)</u>	
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Walking Path 4</u>	Back yard Front yard Side yard Driveway <u>Other Walking Path 5</u>	Back yard Front yard Side yard Driveway Other
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	Surface Soil Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab Comp. # subsamples _____
Sample Time	<u>1416</u>	<u>1419</u>	
Top Depth (in.)	<u>0</u>	<u>0</u>	
Bottom Depth (in.)	<u>6</u>	<u>6</u>	
Field Comments Note if vermiculite is visible in sampled area	<u>AD-000680</u> CENTER - NO LV. 10' E - NO LV. 10' W NO LV.	<u>AD-000680</u> CENTER - NO LV. 10' E - NO LV. 10' W NO LV.	<u>AD-000680</u>
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RH QC by D.Z

DW
9.19.03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

9/20/03
9/19/03

Scenario No.: NA Field Logbook No: 100275 Page No: 93 Sampling Date: 9/19/03
 Address: 5 NEELS PARK - Hwy 37N Owner/Tenant: LINCOLN COUNTY PARKS
 Business Name: _____
 Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)
 Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZIMMERMAN

Rich Essice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17304</u>	<u>CS- 17305</u>	<u>CS- 17306</u>
Location ID	<u>SP- 123885</u>	<u>SP- 123886</u>	<u>SP- 123887</u>
Sample Group	<u>PARK (WP₆)</u>	<u>PARK (WP₇)</u>	<u>Park (WP₈)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other: AREA UNDER PATH 6</u>	Back yard Front yard Side yard Driveway <u>Other: UNDER PATH 7</u>	Back yard Front yard Side yard Driveway <u>Other: UNDER PATH 8</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>9/20</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>9/20</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>9/20</u> <u>Comp. # subsamples 3</u>
Sample Time	<u>0922</u>	<u>0933</u>	<u>0944</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>AD-000680</u> Center - NO LV 10' N - NO LV 10' S - NO LV	<u>AD-000680</u> Center - NO LV 10' N - NO LV 10' S - NO LV	<u>AD-000680</u> Center - NO LV 10' N - NO LV 10' S - NO LV
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by REH QC by RE

DW
09-20-03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 93 Sampling Date: 9/20/03

Address: J NEILS PARK Owner/Tenant: LINCOLN COUNTY PARK

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other PARK

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZIMMERMAN
RICH QUINCE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17307</u>	<u>CS- 17308</u>	<u>CS- 17309</u>
Location ID	<u>SP- 123888</u>	<u>SP- 123889</u>	<u>SP- 123889</u>
Sample Group	<u>PARK (W.P. 9)</u>	<u>PARK (W.P. 10)</u>	<u>PARK (W.P. 10)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>WALKING PATH 9</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>WALKING PATH 10</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>WALKING PATH 10</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> <u>9/20/03</u> <u>FD</u> of <u>CS-17308</u> Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>0957</u>	<u>1001</u>	<u>1007</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled-area	<u>BD- AD- 000680</u> <u>CENTER - NO LIV</u> <u>10' N - NO LIV</u> <u>10' S - NO LIV</u>	<u>BD- AD- 000680</u> <u>CENTER - NO LIV</u> <u>10' N - NO LIV</u> <u>10' S - NO LIV</u>	<u>BD- AD- 000680</u> <u>CENTER - NO LIV</u> <u>10' N - NO LIV</u> <u>10' S - NO LIV</u>
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RH QC by RZ

DW
092003

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 10275 Page No: 94 Sampling Date: 9/20/03

Address: J. NEILS PARK Owner/Tenant: LINCOLN COUNTY PARK

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZIMBEANO
RICH LUDWIG

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17310</u>	<u>CS- 17311</u>	<u>CS- 17312</u>
Location ID	<u>SP- 123890</u>	<u>SP- 123891</u>	<u>SP- 123892</u>
Sample Group	<u>Park (wp 11)</u>	<u>Park (wp 12)</u>	<u>Park (wp 13)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Walking Path 11</u>	Back yard Front yard Side yard Driveway <u>Other Walking Path 12</u>	Back yard Front yard Side yard Driveway <u>Other Walking Path 13</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1019</u>	<u>1024</u>	<u>1032</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>Center - NO LIV</u> <u>10' E - NO LIV</u> <u>10' W - NO LIV</u>	<u>Center - NO LIV</u> <u>10' E - NO LIV</u> <u>10' W - NO LIV</u>	<u>Center - NO LIV</u> <u>10' E - NO LIV</u> <u>10' W - NO LIV</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>RH</u>	QC by <u>RE</u>
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DW
092003

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 94 Sampling Date: 9/20/03

Address: 5 NILES PARK Owner/Tenant: LINCOLN COUNTY PARK

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Roger Hunt / Jimmy Zimmerman / Rich Egan

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17313	CS- 17314	CS- 17315
Location ID	SP- 123893	SP- 123894	SP- 123895
Sample Group	<u>Park (WP 14)</u>	<u>Park (WP 15)</u>	<u>Park (WP 16)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other WALKING PATH 14</u>	Back yard Front yard Side yard Driveway <u>Other WALKING PATH 15</u>	Back yard Front yard Side yard Driveway <u>Other WALKING PATH 16</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1052</u>	<u>1104</u>	<u>1112</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	AD-000680 <u>Center - NO LV</u> <u>10'E - NO LV</u> <u>10'W - NO LV</u>	AD-000680 <u>Center - NO LV</u> <u>10'N - NO LV</u> <u>10'S - NO LV</u>	AD-000680 <u>Center - NO LV</u> <u>10'N - NO LV</u> <u>10'S - NO LV</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RM QC by DL

DW
09/20/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 9/10/03 ¹⁰⁰²⁷⁵ ^{94-75m 412} Page No: 95 Sampling Date: 9/20/03
 Address: J. NEILS PARK Owner/Tenant: LINCOLN COUNTY PARKS
 Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)
 Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZIMMERMAN / ROBERT HUNT
RICH EUSTACE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS-17316 CS- 17316	CS-17317 CS- 17317	CS-17318 CS- 17318
Location ID	SP-123896 SP- 123896	SP-123897 SP- 123897	SP-123898 SP- 123898
Sample Group	PARK (LWP 17)	PARK (SG 8)	PARK (SG 9)
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other WALKING PATH 17</u>	Back yard Front yard Side yard Driveway <u>Other GRV 8</u>	Back yard Front yard Side yard Driveway <u>Other GRV 9</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1119</u>	<u>1302</u>	<u>1309</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>AD-000680</u> Center - NO LIV. 10' N NO LIV. 10' S NO LIV.	<u>AD-000680</u> Center - NO LIV. 75' N NO LIV. 75' S NO LIV. 75' E NO LIV. 75' W NO LIV.	<u>AD-000680</u> Center - NO LIV. 75' N NO LIV. 75' S NO LIV. 75' E NO LIV. 75' W NO LIV.
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by PM QC by RE

DW
092003

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 95 Sampling Date: 9/20/03

Address: J NEILS PARK (Owner) Tenant: Lincoln County PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZAMBONI
RICH EUSTICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17319</u>	<u>CS- 17320</u>	<u>CS- 17321</u> CS- 17321 ^{9/20/03}
Location ID	<u>SP- 123899</u>	<u>SP- 123900</u>	<u>SP- 123901</u>
Sample Group	<u>PARK (G10)</u>	<u>PARK (G11)</u>	<u>PARK (G12)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other G10</u>	Back yard Front yard Side yard Driveway <u>Other G11</u>	Back yard Front yard Side yard Driveway <u>Other G12</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1314</u>	<u>1317</u>	<u>1329</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD- AD- 000680</u> Center - NO L.V. 75' N NO L.V. 75' S NO L.V. 75' E NO L.V. 75' W NO L.V.	<u>BD- AD- 000680</u> Center - NO L.V. 75' N NO L.V. 75' S NO L.V. 75' E NO L.V. 75' W NO L.V.	<u>BD- AD- 000680</u> Center NO L.V. 75' N NO L.V. 75' S NO L.V. 75' E NO L.V. 75' W NO L.V.
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>RH</u>	QC by <u>RE</u>
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DW
09/20/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 95-96 Sampling Date: 9/20/03

Address: J NEILS PARK Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZIMBRANO
RICH EUSTICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17322 <u>CS- 17322</u>	CS- 17323 <u>CS- 17323</u>	CS- 17324 <u>CS- 17324</u>
Location ID	SP- 123902 <u>SP- 123902</u>	SP- 123903 <u>SP- 123903</u>	SP- 123904 <u>SP- 123904</u>
Sample Group	<u>PARK (G13)</u>	<u>PARK (G2)</u>	<u>PARK (G3)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other G1013</u>	Back yard Front yard Side yard Driveway <u>Other G102</u>	Back yard Front yard Side yard Driveway <u>Other G10-3</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1334</u>	<u>1401</u>	<u>1417</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>AD 000680</u> CENTER - NO LIV. 75' N - NO LIV. 75' S - NO LIV. 75' E - NO LIV. 75' W - NO LIV.	<u>AD 000680</u> CENTER - NO LIV. 75' N - NO LIV. 75' S - NO LIV. 75' E - NO LIV. 75' W - NO LIV.	<u>AD 000680</u> CENTER - NO LIV. 75' N - NO LIV. 75' S - NO LIV. 75' E - NO LIV. 75' W - NO LIV.
Entered (LFO) _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>RM</u>	QC by <u>KE</u>
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DW
09/20/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 96 Sampling Date: 9/20/03

Address: 5 NEWS PARK Owner/Tenant: LINDEN GOLF PARK

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other PARK

Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZIMBERG RICH EUSTICE
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17325</u>	<u>CS- 17326</u>	<u>CS- 17327</u>
Location ID	<u>SP- 123905</u>	<u>SP- 123906</u>	<u>SP- 123907</u>
Sample Group	<u>PARK (G18)</u>	<u>PARK (G19)</u>	<u>PARK (G20)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>GRID 18</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>GRID 19</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>GRID 20</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples</u> <u>5</u>	Grab <u>Comp. # subsamples</u> <u>5</u>	Grab <u>Comp. # subsamples</u> <u>5</u>
Sample Time	<u>7:47 AM</u> <u>1439</u>	<u>1423</u>	<u>1419</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>9</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>AD-00660</u> CENTER - NO L.V. 75'N - NO L.V. 75'S - NO L.V. 75'E - NO L.V. 75'W - NO L.V.	<u>AD-00660</u> CENTER - NO L.V. 75'N - NO L.V. 75'S - NO L.V. 75'E - NO L.V. 75'W - NO L.V.	<u>AD-00660</u> CENTER - NO L.V. 75'N - NO L.V. 75'S - NO L.V. 75'E - NO L.V. 75'W - NO L.V.
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RH QC by RE

DW
09-20-03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 97 Sampling Date: 9/20/03

Address: J. NEWS PARK Owner/Tenant: LINCOLN COUNTY PARK

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT / DANNY ZIMSENG
RICH EUSTICE

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17328</u>	<u>CS- 17329</u>	<u>CS- 17330</u>
Location ID	<u>SP- 123908</u>	<u>SP- 123909</u>	<u>SP- 123910</u>
Sample Group	<u>PARK (G21)</u>	<u>PARK (G22)</u>	<u>PARK (G23)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other (GRID 21)</u>	Back yard Front yard Side yard Driveway <u>Other (GRID 22)</u>	Back yard Front yard Side yard Driveway <u>Other (GRID 23)</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1513</u>	<u>1519</u>	<u>1524</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>AD-000680</u> Center - NO LV 75' N - NO LV 75' S - NO LV 75' E - NO LV 75' W - NO LV	<u>AD-000680</u> Center - NO LV 75' N - NO LV 75' S - NO LV 75' E - NO LV 75' W - NO LV	<u>AD-000680</u> Center - NO LV 75' N - NO LV 75' S - NO LV 75' E - NO LV 75' W - NO LV
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RH QC by RE

DW
092003

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No.: 0075 Page No: 100 Sampling Date: 9/22/03

Address: J Niles Park Owner/Tenant: Linn County Park

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: RUBEN HUNT, RICH ELLIOTT, DANN ZIMMANN

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17341</u>	<u>CS- 17342</u>	<u>CS- 17343</u>
Location ID	<u>SP- 123921</u>	<u>SP- 123922</u>	<u>SP- 123923</u>
Sample Group	<u>PARK (SG-17)</u>	<u>PARK (SG-17)</u>	<u>PARK (SG-1)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area SG 7</u>	Back yard Front yard Side yard Driveway <u>Other Area SG 4</u>	Back yard Front yard Side yard Driveway <u>Other Area SG 1</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>0941</u>	<u>0943</u>	<u>0947</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD - NO VERMICULITE</u> <u>Center - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u>	<u>BD - NO VERMICULITE</u> <u>Center - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u>	<u>BD - NO VERMICULITE</u> <u>Center - NO LV</u> <u>20' - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u> <u>75' - NO LV</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>GM</u>	QC by <u>RZ</u>
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DW
09-22-03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100375 Page No: 100-JEM-9-22-03 Sampling Date: 9/22/03

Address: J. NEEL'S PARK Owner/Tenant: LIVIDON Family Parks

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: AKIL ESMIL, DWAY ZIMSON, PERRY HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17344</u>	<u>CS- 17345</u>	<u>CS- 17346</u>
Location ID	<u>SP- 123924</u>	<u>SP- 123925</u>	<u>SP- 123926</u>
Sample Group	<u>PARK (SG5)</u>	<u>PARK (SG6)</u>	<u>PARK (SG16)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other AREA SW</u>	Back yard Front yard Side yard Driveway <u>Other AREA SW</u>	Back yard Front yard Side yard Driveway <u>Other AREA SW</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type <small>(Surface soil unless other wise noted)</small>	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1013</u>	<u>1033</u>	<u>1031</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments <small>Note if vermiculite is visible in sampled area</small>	<u>BD: AD-000680</u> <u>Center - NO LV</u> <u>75'N - NO LV</u> <u>75'S - NO LV</u> <u>75'E - NO LV</u> <u>75'W - NO LV</u>	<u>BD: AD-000680</u> <u>Center - NO LV</u> <u>75'N - NO LV</u> <u>75'S - NO LV</u> <u>75'E - NO LV</u> <u>75'W - NO LV</u>	<u>BD: AD-000680</u> <u>Center - NO LV</u> <u>75'N - NO LV</u> <u>75'S - NO LV</u> <u>75'E - NO LV</u> <u>75'W - NO LV</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>PH</u>	QC by <u>PH</u>
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DW
09-22-03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 10-101 Sampling Date: 9/22/03

Address: J. NEW PARK Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT DAVID ZIMMERMAN
RICH ELLIOTT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17347</u>	<u>CS- 17348</u>	<u>CS- 17349</u>
Location ID	<u>SP- 123927</u>	<u>SP- 123927</u>	<u>SP- 123928</u>
Sample Group	<u>PARK SG-15</u>	<u>PARK SG-15</u>	<u>PARK (HP 8)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>Area SG-15</u>	Back yard Front yard Side yard Driveway Other <u>Area SG-15</u>	Back yard Front yard Side yard Driveway Other <u>Area HP 8</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of <u>CS 17347</u> Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>7:55 AM 9/22/03</u>	<u>11:02</u>	<u>1:58</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>Center - NO LV</u> <u>75 N - NO LV</u> <u>75 E - NO LV</u> <u>75 S - NO LV</u> <u>75 W - NO LV</u>	<u>Center - NO LV</u> <u>75 N - NO LV</u> <u>75 E - NO LV</u> <u>75 S - NO LV</u> <u>75 W - NO LV</u>	<u>Center - NO LV</u> <u>10 N - NO LV</u> <u>10 S - NO LV</u>
Entered (LFO)	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>RE</u>	QC by <u>RE</u>
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DW
09.22.03

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 101275 Page No: 101-102 Sampling Date: 9/22/03
 Address: J. NEILS PARK Owner/Tenant: LINCOLN COUNTY PARKS
 Business Name: _____
 Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)
 Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT Rich FURKE
DANNY ZIMMERMAN

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17350	CS- 17351	CS- 17352
Location ID	SP- 123929	SP- 123930	SP- 123931
Sample Group	<u>Park (HP₄)</u>	<u>Park (HP₃)</u>	<u>Park (HP₂)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area HP₄</u>	Back yard Front yard Side yard Driveway <u>Other Area HP₃</u>	Back yard Front yard Side yard Driveway <u>Other Area HP₂</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other, wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	<u>1357</u>	<u>1407</u>	<u>1404</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>Center - NO LIV.</u> <u>10' N - NO LIV.</u> <u>10' S - NO LIV.</u>	<u>Center - NO LIV.</u> <u>10' N - NO LIV.</u> <u>10' S - NO LIV.</u>	<u>Center - NO LIV.</u> <u>10' N - NO LIV.</u> <u>10' S - NO LIV.</u>
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by CH QC by PR

DW
9/22/03

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 101-102 Sampling Date: 9/22/03

Address: J. Nelson Park Owner/Tenant: Lincoln County Park

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Robert Hunt Danny Zambano Rick Esprice

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17353</u>	<u>CS- 17354</u>	<u>CS- 17355</u>
Location ID	<u>SP- 123932</u>	<u>SP- 123933</u>	<u>SP- 123934</u>
Sample Group	<u>PARK (HP₁)</u>	<u>PARK (HP₇)</u>	<u>PARK (HP₆)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>Area HP₁</u>	Back yard Front yard Side yard Driveway Other <u>Area HP₇</u>	Back yard Front yard Side yard Driveway Other <u>Area HP₆</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	<u>1426</u>	<u>1419</u>	<u>1439</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD 9/22/03 AD-023680</u> <u>Center - NO LV.</u> <u>10' N - NO LV.</u> <u>10' S - NO LV.</u>	<u>BD 9/22/03 AD-023680</u> <u>Center - NO LV.</u> <u>10' E - NO LV.</u> <u>10' W - NO LV.</u>	<u>BD 9/22/03 AD-023680</u> <u>Center - NO LV.</u> <u>10' E - NO LV.</u> <u>10' W - NO LV.</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RLH QC by RLH

DW
09.22.03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: LC0275 Page No: 107 Sampling Date: 9/22/03

Address: J Nels PARK Owner/Tenant: LINCOLN County PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZIMMERMAN ROBERT HUNT
RICH EUBANK

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17356</u>	<u>CS- 17357</u>	<u>CS- 17358</u>
Location ID	<u>SP- 123935</u>	<u>SP- 123936</u>	<u>SP- 123937</u>
Sample Group	<u>PARK (HP5)</u>	<u>PARK (HP9)</u>	<u>PARK (RP1)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other AREA HP5</u>	Back yard Front yard Side yard Driveway <u>Other AREA HP9</u>	Back yard Front yard Side yard Driveway <u>Other AREA RP1</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1441</u>	<u>1446</u>	<u>1451</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BDM 4/21/03 AA-000680 <u>CENTER - NO LIV.</u> <u>10' E - NO LIV.</u> <u>10' W - NO LIV.</u>	BDM AD-000680 <u>CENTER - NO LIV.</u> <u>10' N - NO LIV.</u> <u>10' S - NO LIV.</u>	BDM 4/21/03 <u>CENTER - NO LIV.</u> <u>75' N - NO LIV.</u> <u>75' S - NO LIV.</u> <u>75' E - NO LIV.</u> <u>75' W - NO LIV.</u>
Entered (LFO)	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>fill</u>	QC by <u>RE</u>
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DW
09.22.03

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 102-103 Sampling Date: 9/22/03

Address: 5 Nails Park Owner/Benant: Lincoln County Park

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other (PARK)

Sampling Team: (circle) CDM MACTEC Other _____ Names: Rich Justice Danny Zane
Robert Hunt

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17359</u>	<u>CS- 17360</u>	<u>CS- 17361</u> CS- 17362
Location ID	<u>SP- 123938</u>	<u>SP- 123939</u>	<u>SP- 123940</u>
Sample Group	<u>PARK (AR₁)</u>	<u>PARK (AR₃)</u>	<u>PARK (AR₂)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area AR₁</u>	Back yard Front yard Side yard Driveway <u>Other Area AR₃</u>	Back yard Front yard Side yard Driveway <u>Other Area AR₂</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1501</u>	<u>1504</u>	<u>1511</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD 9/26 AD-000680</u> Center - NO L.V. 10' E - NO L.V. 10' S - NO L.V.	<u>BD 9/26 AD-000680</u> Center - NO L.V. 10' E - NO L.V. 10' W - NO L.V.	<u>BD 9/26 AD-000680</u> Center - NO L.V. 10' E - NO L.V. 10' W - NO L.V.
Entered (LFO)	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by PH QC by RZ

DW
09.22.03

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 103 Sampling Date: 9/22/03

Address: J NEILD PARK Owner/Tenant: LINCOLN COUNTY PARKS

Business Name: _____

Land Use: (circle) Residential School Commercial Mining Roadway Other PARK

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT RICK EUSTICE
DANNY ZIMBANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17362</u>	<u>CS- 17363</u>	
Location ID	<u>SP- 123941</u>	<u>SP- 123942</u>	
Sample Group	<u>PARK (AR1)</u>	<u>PARK (AR RP2)</u>	
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other AREA AR</u>	Back yard Front yard Side yard Driveway <u>Other AREA (RP2)</u>	Back yard Front yard Side yard Driveway Other
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	Surface Soil Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 5</u>	Grab Comp. # subsamples _____
Sample Time	<u>1514</u>	<u>1534</u>	
Top Depth (in.)	<u>0</u>	<u>0</u>	
Bottom Depth (in.)	<u>6</u>	<u>6</u>	
Field Comments Note if vermiculite is visible in sampled area	<u>BD 9/22/03 AD-000680</u> <u>Center - NO LV.</u> <u>10'E - NO LV.</u> <u>10'W - NO LV.</u>	<u>BD 9/22/03 AD-000680</u> <u>Center - NO LV.</u> <u>75'N - NO LV.</u> <u>75'S - NO LV.</u> <u>75'E - NO LV.</u> <u>75'W - NO LV.</u>	BD- _____
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RM QC by RE

DW
9-22-03

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100319 Page No: 112 Sampling Date: 3-8-05

Address: J Neils Park Owner Tenant: Lincoln County Parks

Business Name: _____

Land Use: Residential School Commercial Mining Roadway Other Park

Sampling Team: MACTEC CDM Other _____ Names: B. Shoup, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	AS <u>3-8-05</u> CS- 20062	CS- 20063	CS- 20064
Location ID	AS <u>3-8-05</u> SP- 125759	SP- 125760	SP- 126253
Sample Group	<u>Park</u> →		
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>N ball field</u>	Back yard Front yard Side yard Driveway <u>Other</u>	Back yard Front yard Side yard Driveway <u>Other</u> →
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>
Sample Time	<u>1340</u>	<u>1345</u>	AS <u>1347</u> <u>1347</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	BD- AD-000580 <u>Home plate to 2nd base</u>	BD <u>2nd base to home plate</u>	BD → <u>pitching mound + infield</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100319 Page No: 112 Sampling Date: 3-8-05

Address: J Neils Park Owned Tenant: Lincoln County Parks

Business Name: _____

Land Use: Residential School Commercial Mining Roadway Other (Park)

Sampling Team: MACTEC CDM Other _____ Names: B. Shroyer, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 20065 CS- 20065	CS- 20066	CS- 20067
Location ID	BS 3-8-05 SP- 126254	SP- 126255	SP- 126256
Sample Group	<u>Park</u> →		
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>E ball field</u>	Back yard Front yard Side yard Driveway <u>Other</u> _____	Back yard Front yard Side yard Driveway <u>Other</u> _____
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>
Sample Time	<u>1355</u>	<u>1400</u>	<u>1411</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	BD- AD-000680 <u>Home plate to 2nd base</u>	BD <u>2nd base to Home plate</u>	BD <u>pitching mound + infield</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 16039 Page No: 112 Sampling Date: 3-8-05

Address: J Neils Park Owner Tenant: Lincoln County Parks

Business Name: _____

Land Use: Residential School Commercial Mining Roadway Other Park

Sampling Team: MACTEC CDM Other _____ Names: R. Shoup, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	AS 3-8-05 CS- 20068	CS- 20069	CS- 20070
Location ID	SP 7-8-05 SP- 126257	SP- 126258	SP- 126259
Sample Group	<u>Park</u> →		
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>S ball field</u> →	Back yard Front yard Side yard Driveway Other →	Back yard Front yard Side yard Driveway Other →
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp</u> # subsamples <u>5</u>	Grab <u>Comp</u> # subsamples <u>5</u>	Grab <u>Comp</u> # subsamples <u>5</u>
Sample Time	<u>1418</u>	<u>1423</u>	<u>1432</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	BD AD - 000630 <u>Home plate to 2nd base</u>	BD <u>2nd base to home plate</u>	BD → <u>pitching mound + infield</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100319 Page No: 112 Sampling Date: 3-8-05

Address: J Neils Park ~~Owner~~ Tenant: Lincoln County Parks

Business Name: _____

Land Use: Residential School Commercial Mining Roadway Other (Park)

Sampling Team: MACTEC CDM Other _____ Names: B Shoup, T. Sesti

Data Item	Sample 1	Sample 2	Sample 3
Index ID	AS <u>3-8-05</u> CS- 20071	CS- 20072	CS- 20073
Location ID	AS <u>3-8-05</u> SP- 126260	SP- 126550	SP- 126551
Sample Group	<u>Park</u> →		
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>W ball field</u>	Back yard Front yard Side yard Driveway <u>Other</u> →	Back yard Front yard Side yard Driveway <u>Other</u> →
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>5</u>
Sample Time	<u>1440</u>	<u>1446</u>	<u>1459</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	BD- AD-000680 <u>Home plate to 2nd base</u>	BD <u>2nd base to home plate</u>	BD → <u>pitching mound + infield</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>BS</u>	QC by <u>TS</u>
--	------------------------	-----------------

Appendix D
Analytical Results for September 2003 and
March 2005 J. Neils Park Sampling Events

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-17286-FG		N/A	J Neils Park DW 091903	Park	Sample grid SG7	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17287-FG		N/A	J. Neils Park	Park	Sample grid 14	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17288-FG		N/A	J. Neils Park	Park	Walking path 21	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17289-FG		N/A	J. Neils Park	Park	Walking path 20	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17290-FG		N/A	J. Neils Park	Park	Walking path 19	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17291-FG		N/A	J. Neils Park	Park	Walking path 18	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17292-FG		N/A	J. Neils Park	Park	WP 22	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17293-FG		N/A	J. Neils Park	Park	WP 23	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17294-FG		N/A	J. Neils Park	Park	WP 24	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17295-FG		N/A	J. Neils Park	Park	Walking path 25	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17296-FG		N/A	J. Neils Park	Park	Walking path 26	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17297-FG	cs-17296	N/A	J. Neils Park	Park	Walking path 26	Soil-Like	soil	Field Duplicate	9/19/2003	PLM-VE	A	ND	ND
CS-17298-FG		N/A	J. Neils Park	Park	Walking path1	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	A	ND	ND
CS-17299-FG		N/A	J. Neils Park	Park	Walking path2	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	A	ND	ND
CS-17300-FG		N/A	J Neils Park DW 091903	Park	Walking path3	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	A	ND	ND
CS-17301-FG		N/A	J. Neils Park	Park	Walking path4	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17302-FG		N/A	J. Neils Park	Park	Walking path5	Soil-Like	soil	Field Sample	9/19/2003	PLM-VE	A	ND	ND
CS-17304-FG		N/A	J. Neils Park	Park	Area walking path 6	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17305-FG		N/A	J. Neils Park	Park	Walking path 7	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17306-FG		N/A	J. Neils Park	Park	Walking path 8	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	B1	TR	ND
CS-17307-FG		N/A	J. Neils Park	Park	Walking path 9	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17308-FG		N/A	J. Neils Park	Park	Walking path 10	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17309-FG	CS-17308	N/A	J. Neils Park	Park	Walking path 10	Soil-Like	soil	Field Duplicate	9/20/2003	PLM-VE	A	ND	ND
CS-17310-FG		N/A	J. Neils Park	Park	Walking path 11	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17311-FG		N/A	J. Neils Park	Park	Walking path 12	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17312-FG		N/A	J. Neils Park	Park	Walking path 13	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17313-FG		N/A	J. Neils Park	Park	Walking path 14	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17314-FG		N/A	J. Neils Park	Park	Walking path 15	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17315-FG		N/A	J. Neils Park	Park	Walking path 16	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17316-FG		N/A	J. Neils Park	Park	Walking path 17	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17317-FG		N/A	J. Neils Park	Park	Grid 8	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17318-FG		N/A	J. Neils Park	Park	Grid 9	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17319-FG		N/A	J. Neils Park	Park	Grid 10	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17320-FG		N/A	J. Neils Park	Park	Grid 11	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17321-FG		N/A	J. Neils Park	Park	Grid 12	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17322-FG		N/A	J. Neils Park	Park	Grid 13	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17323-FG		N/A	J. Neils Park	Park	Grid 2	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17324-FG		N/A	J. Neils Park	Park	Grid 3	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17325-FG		N/A	J. Neils Park	Park	Grid 18	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17326-FG		N/A	J. Neils Park	Park	Grid 19	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17327-FG		N/A	J. Neils Park	Park	Grid 20	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-17328-FG		N/A	J. Neils Park	Park	Grid 21	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17329-FG		N/A	J. Neils Park	Park	Grid 22	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17330-FG		N/A	J. Neils Park	Park	Grid 23	Soil-Like	soil	Field Sample	9/20/2003	PLM-VE	A	ND	ND
CS-17341-FG		N/A	J. Neils Park	Park	Area SG 7	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17342-FG		N/A	J. Neils Park	Park	Area SG4	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17343-FG		N/A	J. Neils Park	Park	Area SG1	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17344-FG		N/A	J. Neils Park	Park	Area SG5	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	B1	TR	ND
CS-17345-FG		N/A	J. Neils Park	Park	Area SG6	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17346-FG		N/A	J. Neils Park	Park	Area SG16	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17347-FG		N/A	J. Neils Park	Park	Area SG15	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17348-FG1	CS-17347	N/A	J. Neils Park	Park	Area SG15	Soil-Like	soil	Field Duplicate	9/22/2003	PLM-VE	A	ND	ND
CS-17349-FG1		N/A	J. Neils Park	Park	Area HP8	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17350-FG1		N/A	J. Neils Park	Park	Area HP4	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17351-FG1		N/A	J. Neils Park	Park	Area HP3	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17352-FG1		N/A	J. Neils Park	Park	Area HP2	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17353-FG1		N/A	J. Neils Park	Park	Area HP1	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17354-FG1		N/A	J. Neils Park	Park	Area HP7	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17355-FG1		N/A	J. Neils Park	Park	Area HP6	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	B1	TR	ND
CS-17356-FG1		N/A	J. Neils Park	Park	Area HP5	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17357-FG1		N/A	J. Neils Park	Park	Area HP9	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17358-FG1		N/A	J. Neils Park	Park	Area RP1	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17359-FG		N/A	J. Neils Park	Park	Area AR4	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17360-FG1		N/A	J. Neils Park	Park	Area AR3	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17361-FG1		N/A	J. Neils Park	Park	Area AR2	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17362-FG1		N/A	J. Neils Park	Park	Area AR1	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND
CS-17363-FG		N/A	J. Neils Park	Park	Area (RP2)	Soil-Like	soil	Field Sample	9/22/2003	PLM-VE	A	ND	ND

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-20062-FG1		N/A	J. Neils Park	Park	N. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20063-FG1		N/A	J. Neils Park	Park	N. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20064-FG1		N/A	J. Neils Park	Park	N. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	B1	TR	ND
CS-20065-FG1		N/A	J. Neils Park	Park	E. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20066-FG1		N/A	J. Neils Park	Park	E. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20067-FG1		N/A	J. Neils Park	Park	E. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20068-FG1		N/A	J. Neils Park	Park	S. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20069-FG1		N/A	J. Neils Park	Park	S. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20070-FG1		N/A	J. Neils Park	Park	S. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20071-FG1		N/A	J. Neils Park	Park	W. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20072-FG1		N/A	J. Neils Park	Park	W. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	A	ND	ND
CS-20073-FG1		N/A	J. Neils Park	Park	W. Ballfield	Soil-Like	soil	Field Sample	3/8/2005	PLM-VE	B2	<	ND

Appendix E
Request Letter and Permit for Sampling
Along Montana State Highway 37

Montana Department of Transportation

Encroachment Application And Permit

Printed on: July 21, 2003

<u>Permit number</u>	<u>Permit type</u>	<u>Maintenance Division</u>
455	TEMPORARY	KALISPELL

APPLICANT INFORMATION:

Name: ~~JEFF~~ ~~MANTERA~~ ~~Deer Warren~~ Address: 318 LOUISIANA AVENUE

City: LIBBY State: MT

Phone: 1-303-295-1237 Zip: 59923

Corporation Name: CDM FEDERAL PROGRAMS CORPORATION

Nature of Permit Desired:

COLLECTING OF SOIL SAMPLES ALONG THE RIGHT OF WAY OF MDT. THERE WILL BE APPROXIMATELY 20-30 QUART SAMPLES TAKEN.

ENCROACHMENT LOCATION INFORMATION:

<u>Sign Route</u>	<u>Beginning Reference Point:</u>	<u>Ending Reference Point:</u>			
MT 37	000+0.800	006+0.000			
<u>County:</u>	<u>Township:</u>	<u>Range:</u>	<u>Section:</u>	<u>Qrtr. Sec:</u>	<u>Qrtr. Qrtr. Sec:</u>
LINCOLN	T30N	R31W	3		

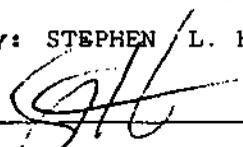
Comments:

1. THE AREA OF SAMPLING WILL BE ON MT 37 FROM KOOTENAI RIVER TO THE RAINY CREEK ROAD.
2. PERMITTEE IS REQUIRED TO LOCATE ALL UTILITIES AND ENCROACHMENTS CURRENTLY BURIED ON MDT RIGHT OF WAY IF NECESSARY.
3. APPROXIMATELY 20-30 QUART SIZE SAMPLES ARE BEING TAKEN.
4. ALL SAMPLED AREAS WILL BE FILLED OR SMOOTHED OUT.
5. CONTACT THE AREA SUPERVISOR, VAN SWEARINGEN AT 293-7921 TWENTY-FOUR HOURS IN ADVANCE OF WORK AND VAN OR ONE OF HIS DESIGNEE WILL BE ON SITE FOR INSPECTION.
6. THIS ENCROACHMENT IS FROM STATION 41+19 TO 413 +90.
7. PERMITTEE IS REQUIRED TO PROVIDE TRAFFIC CONTROL AND OR SIGNING AS NEEDED(SEE ATTACHMENT).

ENCROACHMENT PERMIT INFORMATION:

<u>Application Date</u>	<u>Permit Issue Date</u>	<u>Permit End Date</u>	<u>Permit Class</u>
21-JUL-03	21-JUL-03	30-DEC-03	D

Approved by: STEPHEN L. HERZOG


(Approval Signature)


(Applicant Signature)

Montana Department of Transportation

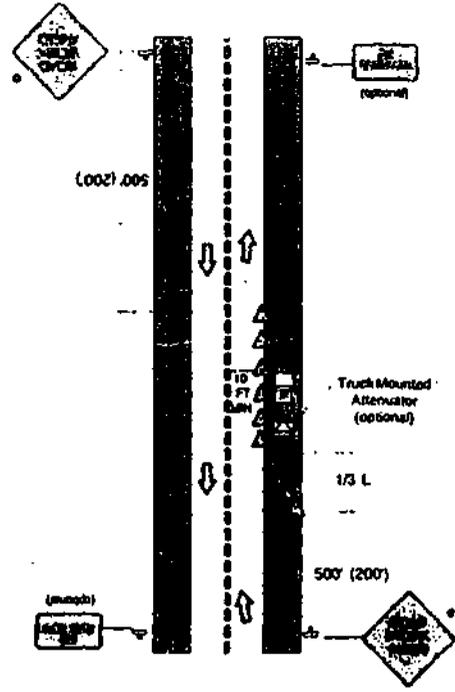
Encroachment Application And Permit

Printed on: July 21, 2003

- 1 **TERM.** This permit shall be in full force and effect from the date hereof until revoked as herein provided.
- 2 **REVOCAION.** This permit may be revoked by State upon giving 45 days notice to Permittee by ordinary mail, directed to the address shown in the application hereto attached, but the State reserves the right to revoke this permit without giving said notice in the event Permittee breaks any of the conditions or terms set forth herein.
- 3 **COMMENCEMENT OF WORK.** No work shall be commenced until Permittee notifies Field Maintenance Chief shown in application when he proposes to commence work.
- 4 **CHANGES IN HIGHWAY.** If State changes highway necessitating changes in structures or installations installed under this permit, Permittee shall make necessary changes without expense to State.
- 5 **STATE SAVED HARMLESS FROM CLAIMS.** In accepting this permit the Permittee, its/his successors or assigns, agree to protect the State and save it harmless from all claims, actions or damage of every kind and description which may accrue to, or be suffered by, any person or persons, corporations or property by reason of the performance of any such work, character of materials used, or manner of installations, maintenance and operation or by the improper occupancy of said highway right of way, and in case any suit or action is brought against the State and arising out of, or by reason of any of the above causes, the Permittee, its/his successors or assigns, will, upon notice to it/him of the commencement of such action, defend the same at its/his sole cost and expense and satisfy any judgment which may be rendered against the State in any suit or action.
- 6 **PROTECTION OF TRAFFIC.** Insofar as the interests of the State and the traveling public are concerned, all work performed under this permit shall be done under the supervision of the Field Maintenance Chief of the Montana Department of Transportation and his authorized representatives, and he/they shall indicate the traffic control devices, the lighting thereof at night, placing of flagmen and watchmen, the acceptable manner in which traffic is to be handled, and shall specify to Permittee how road surface is to be replaced if it is disturbed during operations, but said supervision shall in no way operate to relieve or discharge Permittee from any of the obligations assumed by acceptance of this permit, and especially those set forth under Section 5 hereof.
- 7 **HIGHWAY DAMAGE.** If the work done under this permit interferes in any way with the drainage of the State highway affected, Permittee shall, at its/his own expense, make such provisions as the State may direct to take care of said drainage.
- 8 **RUBBISH AND DEBRIS.** Upon completion of work contemplated under this permit, all rubbish and debris shall be immediately removed and the roadway and roadside left in a neat and presentable condition satisfactory to the State.
- 9 **WORK TO BE SUPERVISED BY THE STATE.** All work contemplated under this permit shall be done under the supervision of and to the satisfaction of the authorized representative of the State, and the State hereby reserves the right to order the change of location or removal of any structure or installation authorized by this permit at any time, said changes or removal to be made at the sole expense of the Permittee.
- 10 **STATES RIGHT NOT TO BE INTERFERED WITH.** All such changes, reconstruction or relocation shall be done by Permittee in such a manner as will cause the least interference with any of the State's work, and the State shall in no wise be liable for any damage to the Permittee by reason of any such work by the State, its agents, contractors or representatives, or by the exercise of any right by the State upon the highways by the installations or structures placed under the permit.
- 11 **REMOVAL OF INSTALLATIONS OR STRUCTURES.** Unless waived by the State, upon termination of this permit, the Permittee shall remove the installations or structures contemplated by this permit and restore the premises to the condition existing at the time of entering upon the same under this permit, reasonable and ordinary wear and tear and damage by the elements, or by circumstances over which the Permittee has no control, excepted.
- 12 **MAINTENANCE AT EXPENSE OF PERMITTEE.** Permittee shall maintain, at its/his sole expense the installations and structures which this permit is granted, in a condition satisfactory to the State.
- 13 **STATE NOT LIABLE FOR DAMAGE TO INSTALLATIONS.** In accepting this permit the Permittee agrees that any damage or injury done to said installations or structures by a contractor working for the State, or by any State employee engaged in construction, alteration, repair, maintenance or improvement of the State highway, shall be at the sole expense of the Permittee.
- 14 **STATE TO BE REIMBURSED FOR REPAIRING ROADWAY.** Upon being billed therefore Permittee agrees to reimburse State for any expense incurred in repairing surface of roadway due to settlement at installation, or for any other damage to roadway as a result of the work performed under this permit.



Shoulder Work With Minor Encroachment



NOTES:

1. The treatment shown may be used on a minor road having low speeds. For higher speed traffic conditions, a lane closure should be considered.
2. The procedure shown should be adequate to carry bi-directional traffic at reduced speed through the activity area, provided the lanes are at least ten feet wide.
3. Where the opposite shoulder is suitable for carrying traffic and of adequate width, traffic lanes may be shifted by use of closely spaced channelizing devices, provided ten-foot wide lanes are maintained.
4. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
5. Portable concrete barriers may be used along the work space.
6. The protection vehicle is optional if taper and channelizing devices are used. For short-duration work, the taper and channelizing devices are optional if the protection vehicle with an activated flashing yellow light is used.

*For Utility Operations Use: "UTILITY WORK AHEAD"





1331 17th Street, Suite 1050
Denver, Colorado 80202
tel: 303 295-1237
fax: 303 295-1895

July, 2003

Mr. Steve Herzog
Kalispell Maintenance
P.O. Box 7308
Kalispell, Montana 59904
(406) 751-2000

Subject: Request for Encroachment Permit

Dear Mr. Herzog:

The intent of this letter is to request from you an encroachment permit for the activities described below.

CDM Federal Programs Corporation (CDM) is currently under contract with the United States Environmental Protection Agency (EPA) to perform Remedial Investigation (RI) activities in and around Libby, Montana. As part of these activities, CDM has planned to collect surface soil samples along the right of way of Montana State Highway 37 between T30N R31W Section 3 and T31N R30W Section 32. This sampling will consist of collecting surficial (i.e., 0-6 inches below ground surface) soil from the right of way areas using hand trowels. No large equipment will be used during these activities that may interfere with traffic. These activities are projected to take approximately five days and are scheduled to occur sometime between July 8, 2003 and December 31, 2003.

If you need addition information please contact me at 303-295-1237 or monterajg@cdm.com

Thank You,

Jeff Montera
Project Manager
CDM Federal Programs Corporation

cc: Document Control Files

Appendix F
Logbook Pages for Highway 37
Sampling Events

Location HIGHWAY 37 Date 9/16/03 67

Project / Client 4887 ARBESTUS / U.S. EPA REGION 8
MONTANA - DOT.

0945 - At River Run through it location
along Highway 37. Set up field
stems, (SHOWERS WORK AREA)
@ 500' + Prepared to ship @
200'. Mark location 24 - North
+ South of Highway 37.

1022 - COLLECT sample 24 N
3 POINT COMPOSITE on 9/16/03

CS-16872 SP-123621

1026 - COLLECT sample 24S - 3pt

CS-16873 SP-123622

FIELD DATA SHEET 005716 CS-16872
CS-16873

- NO L.V. OBSERVED in location 24.

~~GPS ID T4A09163 on 9/16/03~~

1105 SETTING UP @ LOCATION 23S + 23A
HALFWAY BETWEEN RAINY CREEK RD
+ RIVER RUN THROUGH IT. RAINY CREEK
RD IS 0.4 MI FROM RIVER RUN RD
THROUGH IT RAINY CREEK
RD @ THE 0.2 MI MARK BETWEEN
THE TWO ROADS. on 9/16/03

on 9/16/03

on 9/16/03

68

Location

Highway 37

Date

9/16/03

Project / Client

LIBBY ASBESTOS / U.S. EPA Region 6
MONTANA DOT

1115 - MARK sample locations -
NORTH + SOUTH OF HIGHWAY 37
1022 (1127) - COLLECT ~~13N~~ 13N sample - 3PT

CS-16874 SP-123623

~~FIELD DATA SHEET 005761~~

1129

CS-16875 SP-123624

FIELD DATA SHEET 005762

NO L.V. OBSERVED @ LOCATION 23
1300 - SETTING UP ON LOCATION 22 →
LOCATION DOES NOT AGREE WITH
GPS - HENDRICK TO OFFICE TO CHECK
WITH IAN FAIRWEATHER. AFTER LOOKING
OVER COORDINATES, IAN F. BELIEVES THAT
THE COORDINATES ARE REFERENCED TO POINTS
IN DENVER. THE SAMPLING TEAM WILL
BEGIN WITH POINT 22, ~~AND~~ ~~ON~~ 9/16/03
@ RAINY CREEK RD + MOVE ~~3/4~~ 1/4
SOUTH ALONG RT 37 IN 1/4 MILE
INTERVALS. 9/16/03

1415 - MARK @ LOCATION 23. SET UP
CONES + ROAD SIGNS, 9/16/03

~~12~~ / ~~2~~ - ROBERT HUNT - 9/16/03

69

Location

Highway 37

Date

9/16/03

Project / Client

LIBBY ASBESTOS / U.S. EPA Region 6
MONTANA DOT

1129

22N

CS-16876 SP-123625

FIELD DATA SHEET ~~005761~~ 005762

1136

22S

CS-16877 SP-123626

FIELD DATA SHEET ~~005761~~ 005762

NO L.V. OBSERVED @ LOCATION 22

GPS ID: T4A09163 - for location 22

1515 - SETTING UP ON LOCATION 22
PARK @ PULL OFF + WALK THE
REST OF THE WAY 9/16/03

1547

21N

CS-16878 SP-123627

FIELD DATA SHEET 005818

1549

21S

CS-16879 SP-123628

FIELD DATA SHEET ~~005818~~ 005819

NO L.V. OBSERVED @ LOCATION 22

1615 - SETTING UP ON LOCATION 22 9/16/03

20S + 20N. 9/16/03

1632

20N

CS-16880 SP-123629

FIELD DATA SHEET 005815

MODERATE - TO HIGH AMOUNTS OF L.V.

~~12~~ / ~~2~~ - ROBERT HUNT - 9/16/03

70

Location Highway 37 Date 9/16/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA DOT

(1639)

ZON-D0 CS-17121 ^{all lab} SP-123629FIELD DATA SHEET 005819 ~~9/16/03~~

MODERATE TO HIGH AMOUNTS OF L.V.

(1642)

ZOS CS-17122 ^{all lab} SP-123630FIELD DATA SHEET ~~005819~~ 005819

A FEW FLAKES OF L.V. OBSERVED

1705 - DEPART LOCATION ZON + ZOS

[Handwritten signature]
 9/16/03
 9/16/03 ROBERT HUNT

Location CDM OFFICE

Date 9/16/03 71

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA DOT1715 - Arrive back @ CDM OFFICE
BEGIN END OF DAY ACTIVITIES - CHECKING
PAPERWORK, Daily Reports, etc.

(1730)

EQUIPMENT BLANK CS-17123 ^{all lab}

(BD-002015)

FIELD DATA SHEET 005820

EQUIPMENT BLANK COLLECTED FROM
LOT # 229 - SILICA SAND ~~9/16/03~~1735 - Relinquish some samples on
FIELD DATA SHEETS 00576 005702005818, 005819 + 005815 TO
SECURE SAMPLE STORAGE ROOM.*[Handwritten signature]*

ROBERT HUNT

1800 - FINISHED FOR THE DAY ~~9/16/03~~

[Handwritten signature]
 9/16/03
 9/16/03 ROBERT HUNT

72

Location COM OFFICE

Project / Client

LIBBY ASBESTOS / U.S. EPA Region 8

Date 9/17/03

NOTETAKER: ROBERT HUNT RM 9/17/03
PERSONNEL: COM-ROBERT HUNT, Army Zambrano
WEATHER: cloudy - cold (40°) - Forecast
 AM. RAIN - cloudy high of 56°
PPE: Level C / Level D modified
INSTRUMENTS: TRIMBLE GPS UNIT
CALIBRATION: NA

ACTIVITIES: SOIL sampling along Hwy
 37 in accordance with document
 Containment Screening study, Libby, Asbestos
 Site, OPERABLE UNIT 4, Libby, MT

0730 Arrive onsite @ COM OFFICE
 BEGIN DAILY ACTIVITIES - gathering paperwork
 & load equipment. RM 9/17/03
 0815 - MORNING RSI MEETING. RM 9/17/03
 - MORNING HEALTH & SAFETY MEETING @
 RABIES. RM 9/17/03

0905 Arrive @ Highway 37
 in vicinity of location 19.

9/17/03
 ROBERT HUNT - 9/17/03

Location HIGHWAY 37

Project / Client

LIBBY ASBESTOS / U.S. EPA Region 8

Date 9/17/03

MONTANA DOT

0905 Arrive @ location Highway
 37 - location 19 - with correct
 a sample north & south of road

0959 COLLECT SAMPLE, 19 N

CS-17124 SP-123631

FIELD DATA SHEET 005821

1000 CS-17125 SP-123632

1045 FIELD DATA SHEET 005821

* NO LV. OBSERVED @ location 19
 (PS ID T4A09173) - FOR 19N, 19S

245 RM 9/17/03

1045 AT LOCATION 19S, 18N

1109 CS-17126 SP-123633

FIELD DATA SHEET 005821

1112 CS-17127 SP-123634

FIELD DATA SHEET 005822

@ 18N location center subsample
 + 100' W subsample - MONOCYTE L.V.
 NO LV. OBSERVED @ 18S location

Robert Hunt - 9/17/03

GPS - T4A09173

Location Highway 37 Date 9/17/03
Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA DOT

1140. MARK LOCATION 17N + 17S.
1250 SETTING UP ON LOCATION
17N + 17S. 9/17/03

1310
17N CS- 17123 ^{9/17/03} SP- 123635

FIELD DATA SHEET 005822

LV. observed @ low w sub sands. ^{MODERATE}

1313
17S CS- 17129 ^{9/17/03} SP- 123636

FIELD DATA SHEET 005822

NO LV. ^{observed} @ location 17S

GPS ID T4C09173 FOR LOCATION 17

1355 SETTING UP ON LOCATION 16N + 16S

1417
16N CS- 17130 SP- 123637

FIELD DATA SHEET 005823

MODERATE AMOUNTS OF LV. OBSERVED
IN CENTER + LOW E. SUBSAMPLE. TRACE IN LOW.

1422
16S CS- 17131 ^{9/17/03} SP- 123638

FIELD DATA SHEET 005823

1426
W. Dup CS- 17132 ^{9/17/03} SP- 123638

FIELD DATA SHEET 005823
ROBERT HUNT 9/17/03

Location Highway 37 Date 9/17/03
Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA DOT

NO LV. OBSERVED @ LOCATION 16S
GPS ID T4D09173 - FOR LOCATION 16
1505 SETTING UP ON LOCATION 15

1524
15N CS- 17133 ^{9/17/03} SP- 123639

FIELD DATA SHEET 005824

MODERATE LV. @ CENTER + LOW E. TRACE IN W

1527
15S CS- 17134 ^{9/17/03} SP- 123640

FIELD DATA SHEET 005824

NO LV. OBSERVED @ 15S. 9/17/03

1600 SETTING UP ON LOCATION 14N + 14S.

1621
14N CS- 17135 ^{9/17/03} SP- 123641

FIELD DATA SHEET 005824

MODERATE LV. @ ALL SUBSAMPLES (MAY)

1623
14S CS- 17136 ^{9/17/03} SP- 123642

FIELD DATA SHEET 005825

FLAKE OF LV. @ LOW W SUBSAMPLE

GPS ID T4E09173 - FOR 14N + 14S

GPS ID T4G09173 FOR 24N, 23S,

23N, 20N, 120S. 9/17/03

ROBERT HUNT 9/17/03

78

Location HIGHWAY 37 Date 9/18/03

Project / Client LIBBY ASBESTOS / U.S. EPA REGION 8

MONTANA D.O.T

0930 - Arrive @ location 13N-13S -
more sampling locations - set up
SIGNS + TRAFFIC CONES

0857
13N CS-17138 SP-123643

FIELD DATA SHEET - 005827
MONITOR L.V. @ 100' E + 100' W - TRICE L.V. @ Corner

0905
13S CS-17139 SP-123644

FIELD DATA SHEET 005827
NO L.V. @ LOCATION 13 S.

0930 - SETTING UP @ LOCATION 12N-12S

0943
12N CS-17140 SP-123645

FIELD DATA SHEET - 005827

NO L.V. OBSERVED @ 12N

0949
12S CS-17141 SP-123646

FIELD DATA SHEET 005828

NO L.V. OBSERVED @ 12S

1005 - SETTING UP ON LOCATION

11N + 11S - PUT UP - ROAD SIGNS
+ TRAFFIC CONES

ROBERT HUNT 9/18/03

Location HIGHWAY 37 Date 9/16/03

Project / Client LIBBY ASBESTOS U.S. EPA

MONTANA D.O.T REGION 8

1010
11N CS-17142 ~~9/16/03~~ SP-123647
FIELD DATA SHEET 005828

TRACE L.V. @ CENTER + 100' W SUBSAMPLE

1017
11S CS-17143 ~~9/16/03~~ SP-123648
FIELD DATA SHEET 005828

TRACE L.V. IN 100' E SUBSAMPLE

GPS ID T4A09183 FOR 11N, 11S, 105, 10N

1040 - SETTING UP ON LOCATION 10510N

1043
10N CS-17144 ~~9/16/03~~ SP-123649
FIELD DATA SHEET 005829

TRACE L.V. @ 100' E - MODERATE L.V. @ 100' W

1046
10S CS-17145 ~~9/16/03~~ SP-123650
FIELD DATA SHEET 005829

1049
10S-Dup CS-17146 ~~9/16/03~~ SP-123650
FIELD DATA SHEET 005829

TRACE L.V. @ 100' E - MODERATE

L.V. @ CENTER + 100' W ~~9/16/03~~

GPS ID T4A09183 - FOR WS FLOP

ROBERT HUNT 9/16/03

80

Location HIGHWAY 37

Date 9/16/03

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA D.O.T

1108. SETTING UP ON LOCATION 95 MIN -
SET UP ROAD SIGNS & TRAFFIC CONES

(1119)

9N

CS-17147 SP-123651

FIELD DATA SHEET 005830 - 3A

MODERATE L.V. IN ALL 3 SUB SAMPLES

1124

9S

CS-17148 SP-123652

FIELD DATA SHEET 005830 - 3A

TRACE L.V. IN ALL SUBSAMPLES

GPS ID T4809183

1315 - FINISHED ^{3/1/03} - SETTING UP @

LOCATION 85 - 8N - SET UP ROAD

SIGNS & TRAFFIC CONES. 9/1/03

(1331)

8N

CS-17149 SP-123653

FIELD DATA SHEET 005830

TRACE L.V. @ ¹⁰⁰ ~~100~~ - MODERATE L.V. @ ¹⁰⁰ ~~100~~

(1333)

8S

CS-17150 SP-123654

FIELD DATA SHEET 005830

TRACE L.V. @ all three subsample to

GPS ID T4C09183

- RABBIT HUNT - 9/16/03

Location Highway 37 Date 9/10/03 81

Project / Client LIBBY ASBESTOS / U.S. EPA Region 8
MONTANA DOT

1350 - SETTING UP @ LOCATION 7S+7N
SET UP TRAFFIC CONES & ROAD SIGNS.

(1359) CS-17151 ^{9/10/03} SP-123655

FIELD DATA SHEET 005831

MODERATE L.V. @ CONCEN 100W - NO L.V. @ E

(1402) CS-17152 ^{9/10/03} SP-123656

FIELD DATA SHEET 005831

NO L.V. OBSERVED IN ANY SUBSAMPLES

~~4/9/04~~ GPS ID T4C09183 ~~9/10/03~~

1430 - SETTING UP @ LOCATION 6S+6N

(1437) CS-17153 ^{9/10/03} SP-123657

FIELD DATA SHEET 005832

TRACE L.V. @ ALL 3 SUBSAMPLES

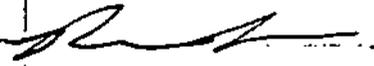
(1441) CS-17154 ^{9/10/03} SP-123658

FIELD DATA SHEET 005832

TRACE L.V. @ 100W - NO L.V. @ CONCEN + E

GPS ID T4D09183 - 6S+6N

1500 - SETTING UP @ LOCATION 5S+5N.

 9/10/03 - ROBERT HUNT

 ROBERT HUNT ^{9/10/03}

82

Location Highway 37

Date 9/18/03

Project / Client ~~TRAC~~ LIBBY ASBESTOS / U.S. EPA Reg. MONTANA DOT

1507 CS- 17155 ~~SP- 123659~~
SN

FIELD DATA SHEET - 005832
TRACE L.V. @ Centre sub SAMPLE - No @ ^{W E} _{LINE}

1509 CS- 17156 ~~SP- 123660~~
SS

FIELD DATA SHEET - 005833
No L.V. OBSERVED IN ANY sub SAMPLES
(GPS ID T4E09183) - FOR SN + SS

1530 - setting up @ location 4N, 4S,
3N, 3S, → location 3N, 3S is @ roadside
location 3 is placed 1/2 way between P.M.
AND ^{OPPOSITE} WEST MARK OF location 4 - 35 yards
@ location 3 are collecting 25' E + W OF
Centre location. 9/18/03

(1538) 4N CS- 17157 ~~SP- 123661~~

FIELD DATA SHEET 005833
No L.V. OBSERVED @ 4N location

(1541) 4S CS- 17158 ~~SP- 123662~~

FIELD DATA SHEET 005833
No L.V. OBSERVED @ location 4S
(GPS ID T4E09183) (T4E09193) 9/18/03
Roberts Trust - 9/18/03

Location HIGHWAY 37 Date 9/16/03⁸³

Project / Client LIBBY AXYSOS / U.S. EPA Region 9
MONTANA D.O.T

1554 CS-17159 ^{9/16/03} SP-123663
3N
FIELD DATA SHEET 005834
NO L.V. OBSERVED @ LOCATION 3N

1559 CS-17160 ^{9/16/03} SP-123664
3S
FIELD DATA SHEET 005834
NO L.V. OBSERVED @ LOCATION 3S

GPS ID T4E09183 ^{9/18/03}
GPS SETTING UP ON LOCATION
IS W ^{9/18/03}

1614 CS-17281 ^{9/16/03} SP-123665
1N
FIELD DATA SHEET 005834
FINALIST NO L.V. OBSERVED @ LOCATION 1N

1619 CS-17282 ^{9/16/03} SP-123666
1S
FIELD DATA SHEET 005836
NO L.V. OBSERVED @ LOCATION 1S

GPS ID T4F09183 FOR 1S 1N
1640 - SETTING UP ON LOCATION 2S 12N
9/18/03

Robert Hunt - 9/16/03

84

Location Highway 37

Date 9/16/60

Project: Client LIBBY ASBESTOS / U.S. EPA R. MONTANA D.O.T.

1644

2N CS-17283 ^{at} SP-123667

FIELD DATA SHEET 005836 — 3PI —

NO L.V. OBSERVED IN ANY SUBSAMPLE

1646

2S CS-17284 ^{at} SP-123668

FIELD DATA SHEET 005836 — 3PI —

NO L.V. OBSERVED IN ANY SUBSAMPLE

GPS ID T4F09183 9/16

1700' FINISHED R LOCATION 2S+2 WITH HIGHWAY 37 Sampling 9/16

9/16/60

ROBERT HUNT-91

Hwy 37 N, Right of Way 05-23-05

Libby Asbestos USEPA Region 8

D.O.T. of Montana

0800 Arrived at Hwy 37 N to duplicate past soil sample methods. Personnel on site B. Hunt, N. Raines, and K. Fortner (author). Weather is partly cloudy/sunny ~ 55°. All work IAW ^{NA 052505} ~~IAW~~ ~~Final SAP~~ ~~Adendum for S. Neils Park~~ ~~and road Highway 37.~~ ~~Final SAP~~ ~~Adendum for S. Neils Park~~ ~~and road Highway 37.~~ Level D PPE (Safety shoes) used. Sample method was a 3 point composite divided into a split sample using a mixing bowl. First composite was from previous GPS sampled point. 2nd and 3rd composite was 100' north + south from previous GPS sampled point. ~~KE 05-23-05~~

Two previous GPS sample points did not match sampling plan. (CS-17140, CS-17138). Therefore we started at previous GPS sample point CS-17145 and used 1/4 mile increments to obtain the correct GPS points. ~~KE 05-23-05~~

Tools were cleaned between samples ~~KE 05-23-05~~

FSDS 910	CS-20222	CS-20223	SP-126921	
FSDS 910	CS-20224	SP-126922		KE 05-23-05
FSDS 911	CS-20225	SP-126922		KE 05-23-05
FSDS 911	CS-20226	CS-20227	SP-126923	
FSDS 912	CS-20228	CS-20229	SP-126924	
FSDS 912	CS-20230	SP-126925		KE 05-23-05
FSDS 913	CS-20231	SP-126925		KE 05-23-05

~~KE 05-23-05~~

Location Hwy 37N Right of way Date 05-24-05
 Project / Client Libby Asbestos US EPA Region 8
D.O.T. of Montana

FSDS 913	CS-20232 CS-20233 SP126926	05/24/05
FSDS 914	CS-20234 CS-20235 SP126927	05/24/05
FSDS 914	CS-20236 SP-126928	05-24-05
FSDS 915	CS-20237 SP-126928	05-24-05
FSDS 915	CS-20238 CS-20239 SP126929	05/24/05
FSDS 916	CS-20240 CS-20241 SP-126930	05/24/05
FSDS 916	CS-20202 SP-126931	05-24-05
FSDS 917	CS-20203 SP-126931	05-24-05
FSDS 917	CS-20204 CS-20205 SP126932	05/24/05

05-24-05

GPS points were collected by P. Hunt at 10 preselected stationary air sample sites. Air sampling performed by D. Rapac & J. Rokowski.

L.V. was observed in numerous locations - CS-20203 - moderate to high L.V.

CS-20204 - moderate L.V.

CS-20240 - trace to moderate L.V.

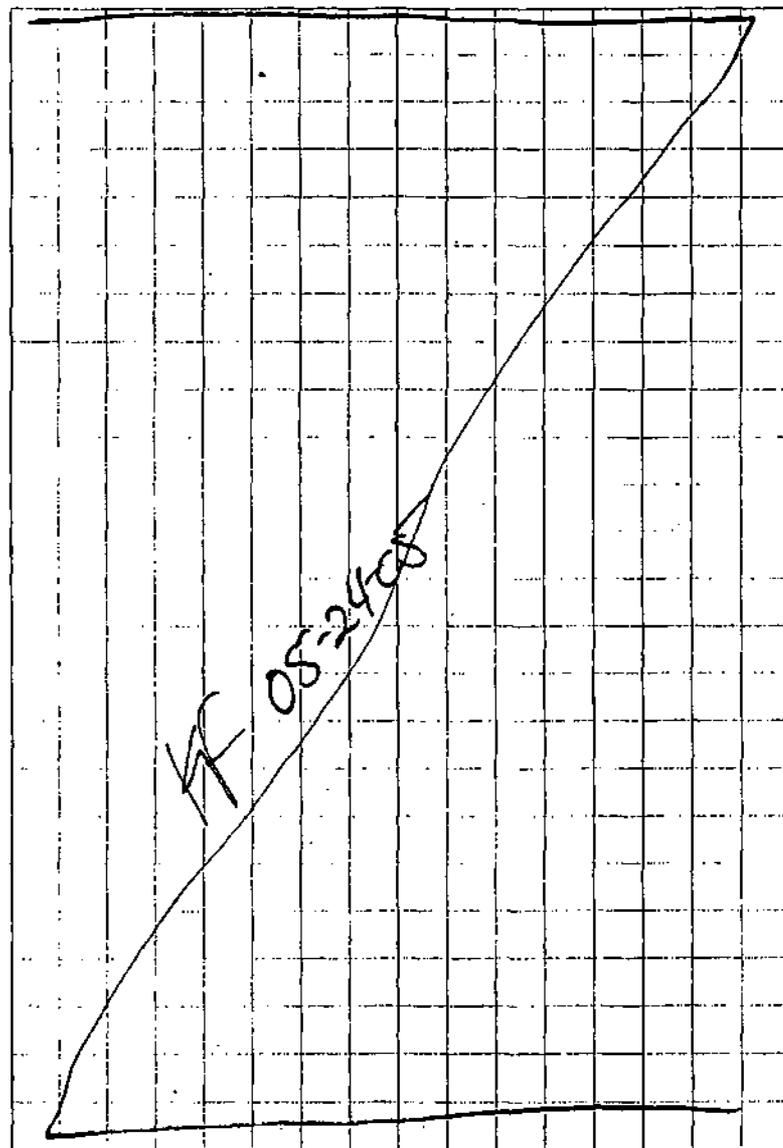
CS-20241 - high CS-20202 - trace - high L.V.

CS-20238 - trace to high L.V.

CS-20234 - trace L.V.

05-24-05

Location Hwy 37N Right of way Date 05-24-05 87
 Project / Client Libby Asbestos USEPA Region 8
D.O.T. of Montana



2B Highway 37N Right of Way
owner: DOT of Montana
Author: JR
Weather 60°

5-23-09
log # 100434

CS- 20242	SP- 126961	- River Run
CS- 20243	SP- 126962	- Rainy Creek
CS- 20244	SP- 126963	- 4.5 miles
CS- 20245	SP- 126964	- Rivers Edge
CS- 20246	SP- 126965	- 3.30 mile
CS- 20247	SP- 126966	- 37N, 5 mi
CS- 20248	SP- 126967	- #1673
CS- 20249	SP- 126968	- J. Neils
CS- 20250	SP- 126969	- Pipe Creek
CS- 20251	SP- 126970	- Park

0800 Arrive at River run with DR.
0805 pump set up and started.
0809 Rainy creek started.
0815 4.5 mile marker started.
0820 Rivers Edge started.
0824 3.30 mile marker started.
0829 37N, south intersection pump started.

Highway 37N Right of Way
owner: DOT of Montana
Author: JR

5-23-05 29
log # 100434

0832	House # 1673	sample started.
0837	J. Neils	sample started.
0840	Pipe creek	sample started.
0845		left site
1435		arrived back on site
1440		Stopped River run sample.
1443		Stopped Rainy Creek sample.
1447		Stopped 4.5 mile marker sample.
1450		stopped 37N, south side sample.
1453		Stopped 3.30 marker sample.
1457		stopped 37N south side sample.
1500		Stopped #1673 sample
1504		Stopped J. Neils sample.
1507		Stopped Pipe creek sample.
1510		Stopped Park sample.
1600		DR turns samples into CG.

~~DR~~
5-23-05

Appendix G
Field Sample Data Sheets for Highway 37
Sampling Events

REVISED

Sheet No.: CSS-S-005761

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: ^{9/16/03} 67-68 Sampling Date: 9/16/03

Address: Highway 374 Right of Way Owner/Tenant: D.O.T of Montana

Business Name: ~~Johnson~~ 12/10/04

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other — Names: ROB HUNT DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16872 ✓	CS- 16873 ✓	CS- 16874 ✓
Location ID	SP- 123621 ✓	SP- 123622 ✓	SP- 123623 ✓
Sample Group	Road (24N)	Road (24S)	Road (23N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other: <u>Area 24N</u>	Back yard Front yard Side yard Driveway Other: <u>Area 24S</u>	Back yard Front yard Side yard Driveway Other: <u>Area (23N)</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other: _____	<u>Surface Soil</u> Other: _____	<u>Surface Soil</u> Other: _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	1022	1026	1127
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- <u>center line 16' from R</u> <u>NO LIV</u> <u>OBSERVED</u>	BD- <u>center line to 1' from</u> <u>RD=100' E, 100' W</u> <u>NO LIV</u> <u>OBSERVED</u>	BD- <u>center line - 10' from</u> <u>RD=100' E, 100' W</u> <u>NO LIV</u> <u>OBSERVED</u>
Entered (LFO) <u>JS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>DZ</u>	QC by <u>RP</u>
--	------------------------	-----------------

DW
09/16/03

REVISED

Sheet No.: CSS-S-

005762

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 68/69 Sampling Date: 9/16/03Address: Highway 37N Right of Way Owner/Tenant: DOT of MontanaBusiness Name: 1219104Land Use: (circle) Residential School Commercial Mining Roadway Other ()Sampling Team: (circle) CDM MACTEC Other --- Names: BOB HUNT DAVEY ZIMMERMAN

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16875 ✓ 9/16/03	CS- 16876 ✓ 9/16/03	CS- 16877 ✓ 9/16/03
Location ID	SP- 123624 ✓ 9/16/03	SP- 123625 ✓ 9/16/03	SP- 123626 ✓ 9/16/03
Sample Group	Road (23 S)	Road (22 N)	Road (22 S)
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area (23 S)</u>	Back yard Front yard Side yard Driveway <u>Other AREA (22 N)</u>	Back yard Front yard Side yard Driveway <u>Other Area 22 S</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	1129	1429	1436
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- center line - 10' from Road 10' E - 10' W NO L.V. OBSERVED	BD- center line - 10' from RD - 10' E, 10' W NO L.V. OBSERVED	BD- center line 10' from RD - 10' E - 10' W NO L.V. OBSERVED
Entered (LFO) <u>DS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>D.Z</u>	QC by <u>RM</u>
--	-------------------------	-----------------

DW
091603

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 69 Sampling Date: 9/16/03

Address: Highway 37N Right of Way (Owner/Tenant: D.O.T. of Montana)

Business Name: _____ # 12/9/04

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other _____ Names: BOB HUNT DANNY ZABRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 16878 ✓ <i>9/16/03</i>	CS- 16879 ✓ <i>9/16/03</i>	CS- 16880 ✓ <i>9/16/03</i>
Location ID	SP- 123627 ✓ <i>9/16/03</i>	SP- 123628 ✓ <i>9/16/03</i>	SP- 123629 ✓ <i>9/16/03</i>
Sample Group	<u>Road (# 21 N)</u>	<u>Road (# 21 S)</u>	<u>Road # 20 N</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area 21N</u>	Back yard Front yard Side yard Driveway <u>Other Area 21S</u>	Back yard Front yard Side yard Driveway <u>Other Area 20N</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	<u>1547</u>	<u>1549</u>	<u>1632</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD- _____ <u>NO L.V.</u> <u>OBSERVED</u> <u>Center line - 10' from RD</u> <u>100' E + 100' W</u>	BD- _____ <u>NO L.V.</u> <u>OBSERVED</u> <u>Center line - 10' from RD</u> <u>100' E + 100' W</u>	BD- _____ <u>Center line 10' from</u> <u>road - 100' E + 100' W</u> <u>for other sub samples.</u> <u>Moderate - to High</u> <u>Amounts of LY - mainly e</u>
Entered (LFO) <u>DZ</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>DZ</u>	QC by <u>AM</u>
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*DW
9/16/03*

REVISED

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 69/70 Sampling Date: 9/16/03

Address: Highway 37-Right of Way Owner/Tenant: D.O.T. of MONTANA

Business Name: 12/9/04 JB

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other Names: BOB HUNT DANNY ZAMBANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17121 ✓	CS- 17122 ✓	
Location ID	SP- 123629	SP- 123630	
Sample Group	Road # 20Ndy	Road (ZOS)	
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area 20	Back yard Front yard Side yard Driveway Other Area 20	Back yard Front yard Side yard Driveway Other
Category (circle)	FS FD of CS-16880 Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples _____
Sample Time	1639	1642	
Top Depth (in.)	0	0	
Bottom Depth (in.)	6	6	
Field Comments Note if vermiculite is visible in sampled area	BD- Center - 10' from road 100' E, 100' W MODERATE amounts OF L.V. OBSERVED margin e 100' E sub-	BD- Center - 100' - E 5' from 100' W FEW FLAKES OF L.V. OBSERVED	BD- _____
Entered (LFO) RM	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by D.Z	QC by RM
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DW 091603

REVISED

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 73 Sampling Date: 9/17/03

Address: Highway 37th Right of Way Owner/Tenant: D.O.T. of Montana

Business Name: 10/12/9/04

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other Names: BOB HUNT & DANNY ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17124 ✓ <i>DZ 9/17/03</i>	CS- 17125 ✓ <i>DZ 9/17/03</i>	CS- 17126 ✓ <i>DZ 9/17/03</i>
Location ID	SP- 123631	SP- 123632	SP- 123633
Sample Group	ROAD (19 N)	ROAD (19 S)	ROAD (18 N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other: Area (19 N)	Back yard Front yard Side yard Driveway Other: Area (19 S)	Back yard Front yard Side yard Driveway Other: Area (18 N)
Category (circle)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	0959	1001	1109
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- _____ Center line 10' from road, 100' E, 100' W NO L.V. OBSERVED	BD- _____ Center line 10' from rd 100' E, 100' W NO L.V. OBSERVED	BD- Sample 10' from rd Center - moderate L.V. 100' E - moderate L.V. 100' W - NO L.V.
Entered (LFO) ps	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by DZ QC by RN

DZ
091703

~~REVISED~~

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 74 Sampling Date: 9/17/03
Address: Highway 34N Right of Way Owner/Tenant: D.O.T of MONTANA
Business Name: No 1219104

Land Use: (circle) Residential School Commercial Mining Roadway Other ()
Sampling Team: (circle) CDM MACTEC Other — Names: ROB HUNT DANNY ZAMBRA

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17127	CS- 17128	CS- 17129
Location ID	SP- 123634	SP- 123635	SP- 123636
Sample Group	ROAD (18 S)	ROAD (17 N)	Road (17 S)
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area (18 S)</u>	Back yard Front yard Side yard Driveway <u>Other Area (17 N)</u>	Back yard Front yard Side yard Driveway <u>Other Area (17 S)</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	Surface Soil Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	1112	1310	1313
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- sample 5' from RD Center - NO LV 100' E - NO LV 100' W - NO LV	BD- SAMPLE 10' from RD Center - NO LV 100' E NO LV 100' W NO LV W SIDE of RD	BD- SAMPLE 10' from RD Center - NO LV 100' E - NO LV 100' W NO LV
Entered (LFO) <u>ps</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by D.Z QC by PM

DW
09/17/03

REVISED

Sheet No.: CSS-S-005823

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 74 Sampling Date: 9/17/03

Address: Highway 37N-Right of Way Owner/Tenant: DOT of Montana

Business Name: 4612/9104

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other Names: BOB HUNT DANNY ZAMBANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17130	CS- 17131	CS- 17132
Location ID	SP- 123637	SP- 123638	SP- 123638
Sample Group	ROAD (16 N)	ROAD (16 S)	ROAD (16 S) N/P
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area (16 N)	Back yard Front yard Side yard Driveway Other Area (16 S)	Back yard Front yard Side yard Driveway Other AREA (16 S)
Category (circle)	ES FD of _____ Field Blank (lot or equipment)	ES FD of _____ Field Blank (lot or equipment)	ES Aug 17 03 FD of CS-17131 Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	13:20 (1703) 1417	1422	1426
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6.11'	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- Sample 10' FROM RD CENTER - MODERATE L.V. 100' E - MODERATE L.V. 100' W - TRACE L.V.	BD- Sample 10' FROM RD CENTER - NO L.V. 100' E - NO L.V. 100' W - NO L.V.	BD- SAMPLE 10' FROM RD. CENTER - NO L.V. 100' E - NO L.V. 100' W - NO L.V.
Entered (LFO) ps	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by D.Z QC by AM

DW
091703

REVISED

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 75 Sampling Date: 9/17/03
Address: Highway 37N - Right of Way Owner/Tenant: MONTANA DOT
Business Name: 761219/04
Land Use: (circle) Residential School Commercial Mining Roadway Other ()
Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZAMBRANO
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17133</u> ✓	<u>CS- 17134</u> ✓	<u>CS- 17135</u> ✓
Location ID	<u>SP- 123639</u>	<u>SP- 123640</u>	<u>SP- 123641</u>
Sample Group	<u>Road (15N)</u>	<u>Road (15S)</u>	<u>Road (14N)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>Area 15N</u>	Back yard Front yard Side yard Driveway Other <u>Area 15S</u>	Back yard Front yard Side yard Driveway Other <u>Area 14N</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	<u>1524</u>	<u>1527</u>	<u>1621</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD - Sample 10' FROM RD CENTER - MODERATE L.V. 10' E - MODERATE L.V. 10' W - MODERATE L.V.</u>	<u>BD - Sample 10' FROM RD CENTER - NO L.V. 10' E - NO L.V. 10' W - NO L.V.</u>	<u>BD - Sample - 10' FROM RD CENTER - MODERATE L.V. 10' E - MODERATE L.V. 10' W - MODERATE L.V.</u>
Entered (LFO) <u>ps</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>RH</u>	QC by <u>RH</u>
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DW
091703

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 75 Sampling Date: 9/17/03

Address: Highway 37N - Right of Way Owner: Montana D.O.T

Business Name: Job 1219/04

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT
DANNY ZAMBIRAO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17136		
Location ID	SP- 123642		
Sample Group	<u>Road (1451)</u>		
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u>	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	Grab Comp. # subsamples _____	Grab Comp. # subsamples _____
Sample Time	<u>1623</u>		
Top Depth (in.)	<u>0</u>		
Bottom Depth (in.)	<u>6</u>		
Field Comments Note if vermiculite is visible in sampled area	<u>BD - SAMPLE 10' FROM RD</u> <u>CENTER - NO L.V.</u> <u>100' W - 1 FLAKE OF L.V.</u> <u>100' E - NO L.V.</u>	BD- _____	BD- _____
Entered (LFO) <u>RS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by D.Z QC by RY

DW
091703

REVISED

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 170275 Page No: 78 Sampling Date: 9/12/03

Address: Highway 37N- Right of Way Owner/Tenant: Montana D.P.T

Business Name: 1612/104

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other Names: BOB HUNT / DANNY ZARBIANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17138	CS- 17139	CS- 17140
Location ID	SP- 123643	SP- 123644	SP- 123645
Sample Group	ROAD (13 N)	ROAD (13 S)	ROAD (12 N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other Area (13 N)	Back yard Front yard Side yard Driveway Other Area (13 S)	Back yard Front yard Side yard Driveway Other Area (12 N)
Category (circle)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)	FS FD of Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil Other	Surface Soil Other	Surface Soil Other
Type (circle)	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3	Grab Comp. # subsamples 3
Sample Time	0957	0903	0943
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD- SAMPLE 10' FROM RD Center - trace L.V. 100' E - MODERATE L.V. 100' W MODERATE L.V.	BD- SAMPLE 10' FROM RD center - NO L.V. 100' E - NO L.V. 100' W NO L.V.	BD- SAMPLE 10' FROM RD Center - NO L.V. 100' E - NO L.V. 100' W NO L.V.
Entered (LFO) PS	Volpe: Entered Validated	Volpe: Entered Validated	Volpe: Entered Validated

For Field Team Completion (Provide Initials) Completed by EM QC by D.Z

DW
09/18/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100775 Page No: 70-79 Sampling Date: 9/16/03
 Address: HIGHWAY 37 Owner/Tenant: MARIANA D.O.T
 Business Name: _____
 Land Use: (circle) Residential School Commercial Mining Roadway Other ()
 Sampling Team: (circle) CDM MACTEC Other _____ Names: DANNY ZAMPANO
ROBERT HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17141</u> ✓	<u>CS- 17142</u> ✓	<u>CS- 17143</u> ✓
Location ID	<u>SP- 123646</u>	<u>SP- 123647</u>	<u>SP- 123648</u>
Sample Group	<u>ROAD (13 S)</u>	<u>ROAD (11 N)</u>	<u>ROAD (11 S)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>Area (13 S)</u>	Back yard Front yard Side yard Driveway Other <u>Area (11 N)</u>	Back yard Front yard Side yard Driveway Other <u>Area (11 S)</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> Comp. # subsamples <u>3</u>	<u>Grab</u> Comp. # subsamples <u>3</u>	<u>Grab</u> Comp. # subsamples <u>3</u>
Sample Time	<u>0949</u>	<u>1010</u>	<u>1017</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD - <u>sample 10' from rd</u> Center - NO L.V. 100' E NO L.V. 100' W NO L.V.	BD - <u>SAMPLE 10' FROM RD</u> RD Center - L.V. (fence) 100' E - NO L.V. 100' W - TRACE L.V.	BD - <u>sample 10' from rd</u> Center - NO L.V. 100' E NO L.V. 100' W 10 L.V.
Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by DA QC by D.Z

DW
09/18/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 29 Sampling Date: 9/18/03
 Address: Highway 37 Owner/Tenant: MONTANA DOT
 Business Name: _____
 Land Use: (circle) Residential School Commercial Mining Roadway Other ()
 Sampling Team: (circle) CDM MACTEC Other _____ Names: Danny Zambrano
Robert Hunt

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS-17144 ✓ CS- 17144	CS-17145 ✓ CS- 17145	CS-17146 ✓ CS- 17146
Location ID	SP-123649 ✓ SP- 123649	SP-123650 ✓ SP- 123650	SP-123650 ✓ SP- 123650
Sample Group	<u>Road (ION)</u>	<u>Road (IOS)</u>	<u>Road (IOS-Dep)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area ION</u>	Back yard Front yard Side yard Driveway <u>Other Area IOS</u>	Back yard Front yard Side yard Driveway <u>Other Area IOS</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> ¹² <u>9/19/03</u> FD of <u>CS-17145</u> Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1043</u>	<u>1046</u>	<u>1051</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD-SAMPLE 10' FROM RD.</u> <u>CENTER - NO LIV.</u> <u>100' E - TRACE LIV.</u> <u>100' W - MODERATE LIV.</u>	<u>BD-SAMPLE 10' FROM RD</u> <u>CENTER - MODERATE LIV</u> <u>100' E TRACE LIV.</u> <u>100' W MODERATE LIV</u>	<u>BD-SAMPLE 10' FROM RD</u> <u>CENTER MODERATE LIV</u> <u>100' E TRACE LIV</u> <u>100' W MODERATE LIV</u>
Entered (LFO)	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>RM</u>	QC by <u>DZ</u>
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DW
09/18/03

REVISED

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 80 Sampling Date: 9/18/03
Address: Highway 37N - Right of Way Owner/Tenant: MONSINA D.O.T
Business Name: 16129104
Land Use: (circle) Residential School Commercial Mining Roadway Other ()
Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT
DANNY ZIMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17147</u>	<u>CS- 17148</u>	<u>CS- 17149</u>
Location ID	<u>SP- 123651</u>	<u>SP- 123652</u>	<u>SP- 123653</u>
Sample Group	<u>Road (9N)</u>	<u>Road (9S)</u>	<u>Road (8N)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area 9N</u>	Back yard Front yard Side yard Driveway <u>Other Area 9S</u>	Back yard Front yard Side yard Driveway <u>Other Area 8N</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1119</u>	<u>1124</u>	<u>1331</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD- Sample 10' from PD</u> <u>Center - moderate L.V.</u> <u>100' E moderate L.V.</u> <u>100' W moderate L.V.</u>	<u>BD- Sample 10' from PS</u> <u>Center trace L.V.</u> <u>100' E trace L.V.</u> <u>100' W ^{on side} trace L.V.</u>	<u>BD- Sample 10' from PD</u> <u>Center moderate L.V.</u> <u>100' E - trace L.V.</u> <u>100' W - moderate L.V.</u>
Entered (LFO) <u>RS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RM QC by D.Z.

DW
09/18/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 80-81 Sampling Date: 9/18/03
 Address: Highway 37N Right of Way Owner/Tenant: Montana DOT
 Business Name: 16129104
 Land Use: (circle) Residential School Commercial Mining Roadway Other ()
 Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT
DANNY ZIMMERMAN

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17150</u> ✓	<u>CS- 17151</u> ✓	<u>CS- 17152</u> ✓
Location ID	<u>SP- 123654</u>	<u>SP- 123655</u>	<u>SP- 123656</u>
Sample Group	<u>Road (85)</u>	<u>Road (7N)</u>	<u>Road (7S)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area 85</u>	Back yard Front yard Side yard Driveway <u>Other Area 7N</u>	Back yard Front yard Side yard Driveway <u>Other Area 7S</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	<u>1333</u>	<u>1359</u>	<u>1402</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD- <u>Sample 10' from rd</u> Center - trace L.V. 100' E trace L.V. 100' W trace L.V.	BD- <u>SAMPLE 10' FROM RD</u> Center - MODERATE L.V. 100' E - NO L.V. 100' W MODERATE L.V.	BD- <u>Sample 10' From RD</u> Center - NO L.V. 100' E - NO L.V. 100' W - NO L.V.
Entered (LFO) <u>AS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by AS QC by D.Z

DW
09/18/03

REVISED

Sheet No.: CSS-S- 005832

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 81-82 Sampling Date: 9/18/03

Address: Highway 37N Right of Way Owner/Tenant: MONTANA DOT

Business Name: _____ No 12/9/04

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT
DANNY ZAMBERO ZAMBRANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 17153 ✓	CS- 17154 ✓	CS- 17155 ✓
Location ID	SP- 123657	SP- 123658	SP- 123659
Sample Group	Road (SN) (6N)	Road (6S)	Road (5N)
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>Area 6N</u>	Back yard Front yard Side yard Driveway Other <u>Area 6S</u>	Back yard Front yard Side yard Driveway Other <u>Area 5N</u>
Category (circle)	<u>RS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1437</u>	<u>1441</u>	<u>1507</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD- <u>SAMPLE 10' FROM RD</u> Center - <u>TRACE L.V</u> 100' E <u>TRACE L.V</u> 100' W <u>TRACE L.V</u>	BD- <u>SAMPLE 10' FROM RD</u> Center - <u>NO L.V.</u> 100' E <u>NO L.V.</u> 100' W <u>TRACE L.V</u>	BD- <u>SAMPLE 10' FROM RD</u> Center - <u>Trace LV</u> 100' E - <u>no LV</u> 100' W - <u>no LV</u>
Entered (LFO) <u>RS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RS QC by D.Z

DW
09/18/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100275 Page No: 82 Sampling Date: 9/18/03
 Address: Highway 37N-Right of Way Owner/Tenant: MONTANA DOT
 Business Name: 301249104
 Land Use: (circle) Residential School Commercial Mining Roadway Other ()
 Sampling Team: (circle) CDM MACTEC Other — Names: ROBERT HUNT
DANNY ZANERNO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17156</u>	<u>CS- 17157</u>	<u>CS- 17158</u>
Location ID	<u>SP- 123660</u>	<u>SP- 123661</u>	<u>SP- 123662</u>
Sample Group	<u>Road (SS)</u>	<u>Road (4N)</u>	<u>Road (4S)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Area SS</u>	Back yard Front yard Side yard Driveway <u>Other Area 4N</u>	Back yard Front yard Side yard Driveway <u>Other Area 4S</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>	Grab <u>Comp. # subsamples 3</u>
Sample Time	<u>1509</u>	<u>1538</u>	<u>1541</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD- Sample 10' FROM RD Center - NO LV 100' E NO LV 100' W NO LV	BD- Sample 10' FROM RD Center - NO LV 100' E NO LV 100' W NO LV	BD- Sample 10' FROM RD Center - NO LV 100' E NO LV 100' W NO LV
Entered (LFO) <u>ps</u>	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by PH QC by D.Z

DW
09/18/03

**CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION
FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL**

Scenario No.: NA Field Logbook No: 100257 Page No: 83 Sampling Date: 9/18/03

Address: Highway 37N-Right of Way Owner/Tenant: MONTANA D.O.T

Business Name: 11/2/9/00

Land Use: (circle) Residential School Commercial Mining Roadway Other ()

Sampling Team: (circle) CDM MACTEC Other — Names: ROBERT HUNT

DANNY ZAMBERG

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS-17154 CS- 17159 ✓	CS-17160 CS- 17160 ✓	CS-17281 CS-17281 ✓ CS-17281 <i>29/06/03</i>
Location ID	SP-123663 SP- 123663	SP-123664 SP- 123664	SP- 123665
Sample Group	Road 3 ft (3N) ^{DW 9/18/03} Road 3 ft (3N)	Road (3S)	Road (1N)
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> Area 3N	Back yard Front yard Side yard Driveway <u>Other</u> Area 3S	Back yard Front yard Side yard Driveway <u>Other</u> Area 1N
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	1554	1559	1614
Top Depth (in.)	0	0	0
Bottom Depth (in.)	6	6	6
Field Comments Note if vermiculite is visible in sampled area	BD SAMPLE 10' FROM ROAD CENTER -- NO L.V. 25' E - NO L.V. 25' W NO L.V.	BD-SAMPLE 10' FROM ROAD CENTER. NO L.V. 25' E - NO L.V. 25' W NO L.V.	BD- SAMPLE 10' FROM ROAD CENTER - NO L.V. 100' E - NO L.V. 100' W - NO L.V.
Entered (LFO) <u>JZ</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>RP1</u>	QC by <u>D.R.</u>
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*DW
9/18/03*

REVISED

Sheet No.: CSS-S- 005836

CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 83-84 Sampling Date: 9/18/03
 Address: Highway 37N-Right of Way Owner/Tenant: MONTANA DOT
 Business Name: 16 12/9/04
 Land Use: (circle) Residential School Commercial Mining Roadway Other ()
 Sampling Team: (circle) CDM MACTEC Other _____ Names: ROBERT HUNT
DANNY ZAMBANO

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17282</u> ✓	<u>CS- 17283</u> ✓	<u>CS- 17284</u> ✓
Location ID	<u>SP- 123666</u>	<u>SP- 123667</u>	<u>SP- 123668</u>
Sample Group	<u>Road (1S)</u>	<u>Road (2N)</u>	<u>Road (2S)</u>
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>Area 1S</u>	Back yard Front yard Side yard Driveway Other <u>Area 2N</u>	Back yard Front yard Side yard Driveway Other <u>Area 2S</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>	<u>Grab</u> <u>Comp. # subsamples 3</u>
Sample Time	<u>1616</u>	<u>1644</u>	<u>1646</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD-SAMPLE 10' FROM RD</u> <u>CENTER -- NO L.V.</u> <u>100' E -- NO L.V.</u> <u>100' W -- NO L.V.</u>	<u>BD-SAMPLE 20' FROM RD</u> <u>CENTER -- NO L.V.</u> <u>100' E -- NO L.V.</u> <u>100' W -- NO L.V.</u> <u>TC 9/19/03</u>	<u>BD-SAMPLE</u> <u>CENTER -- NO L.V.</u> <u>100' E -- NO L.V.</u> <u>100' W -- NO L.V.</u> <u>TC 9/18/03</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by RM QC by DZ

DW
09/18/03

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100429 Page No: 85-87 Sampling Date: 5/23/05
 Address: Highway 37 N Right of Way Owner/Tenant: D.O.T. of Montana
 Business Name: NA
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: B. Hunt, K. Fortner, N. Raines

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>NR 052305</u> CS- 20222	CS- 20223	CS- 20224
Location ID	<u>NR 052305</u> SP- 126921	SP- 126921	SP- 126922
Sample Group	<u>Road</u>	<u>Road</u>	<u>Road</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of <u>CS-20222</u> Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>
Sample Time	<u>1114</u>	<u>1114</u>	<u>1131</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BQ-NR 052305</u> No LV in sample in all 3 points Near CS-17160 PLM 9002	<u>NR 052305</u> No LV in sample in all 3 points Near CS-17160 PLM-VE PLM-GRAY	<u>NR 052305</u> - No LV in sample - No LV - No LV Near CS-17157 PLM 9002
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>JK</u>	QC by <u>IF</u>
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100429 Page No: 85-87 Sampling Date: 5/23/05

Address: Highway 37 N Right of Way Owner/Tenant: D.O.T. of Montana

Business Name: NA

Land Use: Residential School Commercial Mining Roadway Other ()

Sampling Team: MACTEC CDM Other _____ Names: D. Hunt, K. Fortner, N. Ruines

Data Item	Sample 1	Sample 2	Sample 3
Index ID	NR 052305 CS- 20225	CS- 20226	CS- 20227
Location ID	NR 052305 SP- 126922	SP- 126923	SP- 126923
Sample Group	<u>Road</u>	<u>Road</u>	<u>Road</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>
Category (circle)	<u>FS</u> FD of <u>CS-20224</u> <u>Field Blank</u> (lot or equipment)	<u>FS</u> FD of _____ <u>Field Blank</u> (lot or equipment)	<u>FS</u> FD of <u>CS-20226</u> <u>Field Blank</u> (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>
Sample Time	<u>1131</u>	<u>1155</u>	<u>1155</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	<u>NR 052305</u> BD- _____ No LV in sample No LV No LV Near <u>CS-17157</u> <u>PLM-VE PLM-GRAY</u>	<u>NR 052305</u> BD- _____ Trace LV in all 3 points Near <u>CS-17151</u> <u>PLM 9002</u>	<u>NR 052305</u> BD- _____ Trace LV in all 3 points Near <u>CS-17151</u> <u>PLM-VE PLM-GRAY</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>MR</u>	QC by <u>KF</u>
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100429 Page No: 85-87 Sampling Date: 5/23/05
 Address: Highway 37 N Right of Way Owner/Tenant: D.O.T. of Montana
 Business Name: NA
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: B. Hunt, K. Fortner, N. Raines

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 20228 ^{NR 052305}	CS- 20229	CS- 20230
Location ID	SP- 126924 ^{NR 052305}	SP- 126924	SP- 126925
Sample Group	Road	Road	Road
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of <u>CS-20228</u> Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>
Sample Time	1254	1254	1310
Top Depth (in.)	0	0	0
Bottom Depth (in.)	1	1	1
Field Comments Note if vermiculite is visible in sampled area	^{NR 052305} BR- Center - No LV 100' South - Trace LV 100' North - Trace LV Near ^{LS} LS-17150 PLM-9002	^{NR 052305} BR- Center - No LV 100' South - Trace LV 100' North - Trace LV Near ^{LS} 17150 PLM-VE PLM-6RAY	^{NR 052305} BR- No LV in all 3 points Near ^{LS} LS-17145 PLM-9002
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>NR</u>	QC by <u>IF</u>
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100429 Page No: 85-87 Sampling Date: 05/23/05
 Address: Hwy 37 N Right of Way Owner/Tenant: D.O.T. of Montana
 Business Name: NA
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: B. Hunt, K. Fortner, N. Raines

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>NR 052305</u> CS- 20231	CS- 20232	CS- 20233
Location ID	<u>NR 052305</u> SP- 126925	SP- 126926	SP- 126926
Sample Group	<u>Road</u>	<u>Road</u>	<u>Road</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>
Category (circle) <u>NR 052305</u>	<u>FS</u> <u>SS</u> FD of <u>CS-20230</u> Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> <u>SS</u> FD of <u>CS-20232</u> Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>	<u>Grab</u> <u>Comp</u> # subsamples <u>3</u>
Sample Time	<u>1310</u>	<u>1333</u>	<u>1333</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	<u>NR 052305</u> BD- _____ <u>No LV in all 3 points</u> <u>Near CS-17145</u> <u>PLM-VE PLM-GRAY</u>	<u>NR 052305</u> BD- _____ <u>No LV in all 3 points</u> <u>PLM-9002</u>	<u>NR 052305</u> BD- _____ <u>No LV in all 3 points</u> <u>PLM-VE PLM-GRAY</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>NR</u>	QC by <u>KF</u>
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100429 Page No: 85-87 Sampling Date: 05/23/05
 Address: Hwy 37N Right of Way Owner/Tenant: D.O.T. of Montana
 Business Name: NA
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: B. Hunt, K. Fortner, N. Raines

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 20234 ^{NA 05/23/05}	CS- 20235 ^{NA 05/23/05}	CS- 20236 ^{NA 05/23/05}
Location ID	SP- 126927 ^{NA 05/23/05}	SP- 126927 ^{NA 05/23/05}	SP- 126928 ^{NA 05/23/05}
Sample Group	Road	Road	Road
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>
Category (circle)	<u>ES</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> ^{NA 05/23/05} FD of <u>CS-20234</u> Field Blank (lot or equipment)	<u>ES</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>
Sample Time	<u>1403</u>	<u>1403</u>	<u>1450</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	^{NA 05/23/05} BD- _____ Center - Trace LV 100' South - No LV 100' North - Trace LV PLM-9002	^{NA 05/23/05} BD- _____ Center - Trace LV 100' South - No LV 100' North - Trace LV PLM-VE PLM-GRAV	^{NA 05/23/05} BD- _____ No LV in all 3 points Near CS-17134 PLM-9002
Entered (LFO) _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion (Provide Initials) Completed by NR QC by KF

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100429 Page No: 85-87 Sampling Date: 05-23-05
 Address: Hwy 37N Right of Way Owner/Tenant: D.O.T. of Montana
 Business Name: NA
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: B. Hunt, N. Ruinks, K. Farmer

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 20237</u> ^{NA 052305}	<u>CS- 20238</u>	<u>CS- 20239</u>
Location ID	<u>SP- 126928</u> ^{NA 052305}	<u>SP- 126929</u>	<u>SP- 126929</u>
Sample Group	<u>Road</u>	<u>Road</u>	<u>Road</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of Way</u>
Category (circle)	FS <u>FS</u> ^{NA 052305} FD of <u>CS-20236</u> Field Blank (lot or equipment)	FS <u>FS</u> FD of _____ Field Blank (lot or equipment)	FS <u>FS</u> ^{NA 05-23-05} FD of <u>CS-20238</u> Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>
Sample Time	<u>1450</u>	<u>1510</u>	<u>1510</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	^{NA 052305} BD- _____ <u>No LV in all 3 points</u> <u>Near CS-17134</u> <u>PLM-VE PLM-GRAY</u>	^{NA 052305} BD- _____ <u>center - Trace LV</u> <u>100' S - Trace LV</u> <u>100' N - Trace LV High LV</u> ^{NA 052305} <u>Near CS-17130</u> <u>PLM-9002</u>	^{NA 052305} BD- _____ <u>Center - Trace LV</u> <u>100' S - Trace LV</u> <u>100' N - Trace LV High LV</u> ^{NA 052305} <u>Near CS-17130</u> <u>PLM-VE PLM-GRAY</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>NR</u>	QC by <u>KF</u>
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 10429 Page No: 85-87 Sampling Date: 5/23/05
 Address: Highway 37 N Right of Way Owner/Tenant: Montana D.D.T.
 Business Name: NA
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: B. Hunt, K. Fortner, N. Rines

Data Item	Sample 1	Sample 2	Sample 3
Index ID	CS- 20240 NR 052305	CS-20241	CS- 20202
Location ID	SP- 126930 NR 052305	SP- 126930	SP- 126931
Sample Group	<u>Road</u>	<u>Road</u>	<u>Road</u>
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>	Back yard Front yard Side yard Driveway <u>Other Right of Way</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> <u>CS</u> FD of <u>CS-20240</u> <u>NR 052305</u> Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp.</u> # subsamples <u>3</u>	Grab <u>Comp.</u> # subsamples <u>3</u>	Grab <u>Comp.</u> # subsamples <u>3</u>
Sample Time	<u>1530</u>	<u>1530</u>	<u>1547</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	<u>NR 052305</u> BD- _____ Center - Trace LV 100' S - No LV 100' N - Moderate LV Near <u>CS-17127</u> <u>PLM-9002</u>	<u>NR 052305</u> BD- _____ Center - Trace LV 100' S - No LV 100' N - Moderate LV Near <u>CS-17127</u> <u>PLM-VE PLM-GRV</u>	<u>NR 052305</u> BD- _____ Center - High LV 100' S - Moderate LV 100' N - Trace LV Near <u>CS-16880</u> <u>PLM-9002</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>NR</u>	QC by <u>KF</u>
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Field Logbook No: 100429 Page No: ^{NR 052305} 87-85-87 Sampling Date: 05/23/05
 Address: Hwy 37 N Right of Way Owner/Tenant: D.O.T. of Montana
 Business Name: NA
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: B. Hunt, N. Raines, K. Fortner

Data Item	Sample 1	Sample 2	Sample 3
Index ID	^{NR 052305} CS- 20203	CS- 20204	CS- 20205
Location ID	^{NR 052305} SP- 126931	SP- 126932	SP- 126932
Sample Group	Road	Road	Road
Location Description (circle)	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of way</u>	Back yard Front yard Side yard Driveway <u>Other</u> <u>Right of way</u>
Category (circle)	FS <u>SS</u> <u>KF 05-23-05</u> FD of <u>CS-20202</u> Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	FS <u>SS</u> <u>KF 05-23-05</u> FD of <u>CS-20204</u> Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>	Grab <u>Comp</u> # subsamples <u>3</u>
Sample Time	<u>1547</u>	<u>1602</u>	<u>1602</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>1</u>	<u>1</u>	<u>1</u>
Field Comments Note if vermiculite is visible in sampled area	^{NR 052305} BD- _____ Center - High LV 100' S - Moderate LV 100' N - Trace LV Near LS-16880 <u>PLM-VE</u> <u>PLM-GRAV</u>	^{NR 052305} BD- _____ Center - Moderate LV 100' S - Moderate LV 100' N - No LV Near CS-16874 <u>PLM-9002</u>	^{NR 052305} BD- _____ Center - Moderate LV 100' S - Moderate LV 100' N - No LV Near 16874 <u>PLM-VE</u> <u>PLM-GRAV</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials)	Completed by <u>NA</u>	QC by <u>KF</u>
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LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR STATIONARY AIR

Field Logbook No: 100434 Page No: 28/29 Sampling Date: 5-23-05
 Address: Highway 37 right of way Owner/Tenant: MONTANA DOT
 Business Name: N/A

Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: Repine, Rakowski

Data Item	Cassette 1	Cassette 2	Cassette 3
Index ID	CS- 20242	CS- 20243	CS- 20244
Location ID	SP- 126961	SP- 126962	SP- 126963
Sample Group	Road	Road	Road
Location Description	S of Intersection of River runs through it and Hwy 37	S of Intersection of Rainy creek rd and Hwy 37	4.5 mile mark on hwy
Category (circle)	<input checked="" type="radio"/> ES <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)	<input checked="" type="radio"/> ES <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)	<input checked="" type="radio"/> ES <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)
Matrix Type (circle)	Indoor <input type="radio"/> <u>Outdoor</u> <input type="radio"/> NA	Indoor <input type="radio"/> <u>Outdoor</u> <input type="radio"/> NA	Indoor <input type="radio"/> <u>Outdoor</u> <input type="radio"/> NA
Filter Diameter (circle)	<u>25mm</u> 37mm	<u>25mm</u> 37mm	<u>25mm</u> 37mm
Pore Size (circle)	TEM- .46 <u>PCM- 0.8</u>	TEM- .45 <u>PCM- 0.8</u>	TEM- .45 <u>PCM- 0.8</u>
Flow Meter Type (circle)	<u>Rotometer</u> DryCal NA	<u>Rotometer</u> DryCal NA	<u>Rotometer</u> DryCal NA
Pump ID Number	691335	666523	626656
Flow Meter ID No.	100916-2	100916-2	100916-2
Start Date	5-23-05	5-23-05	5-23-05
Start Time	8:05	8:09	8:15
Start Flow (L/min)	3.14	3.14	3.14
Stop Date	5-23-05	5-23-05	5-23-05
Stop Time	1440	1443	1447
Stop Flow (L/min)	3.14	3.14	3.37
Pump fault? (circle)	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA
MET Station onsite?	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA
Sample Type	Pre Post Clear 2 nd Clear 3 rd Clear <u>NA</u>	Pre Post Clear 2 nd Clear 3 rd Clear <u>NA</u>	Pre Post Clear 2 nd Clear 3 rd Clear <u>NA</u>
Field Comments			
Cassette Lot Number:	<u>4264</u>		
Archive Blank (circle):	Yes <input checked="" type="radio"/> No	Yes <input checked="" type="radio"/> No	Yes <input checked="" type="radio"/> No
QC (Field Team) Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion (Provide Initials) DJR Completed by DJR QC by APD

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR STATIONARY AIR

Field Logbook No: 100434 Page No: 28, 29 Sampling Date: 5-23-05
 Address: Highway 37N Right of Way Owner/Tenant: MONTANA
 Business Name: N/A
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: Repine, Rakowski

Data Item	Cassette 1	Cassette 2	Cassette 3
Index ID	CS- 20245	CS- 20246	CS- 20247
Location ID	SP- 126964	SP- 126965	SP- 126966
Sample Group	Road	Road	Road
Location Description	S of Intersection of Rivers Edge trailer court and Hwy 37N	West side of Hwy 37N At 3.30 mile marker.	S of Intersection of MAKERd and Hwy 37N
Category (circle)	<input checked="" type="radio"/> FS <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)	<input checked="" type="radio"/> FS <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)	<input checked="" type="radio"/> FS <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)
Matrix Type (circle)	Indoor <input type="radio"/> Outdoor <input checked="" type="radio"/> NA	Indoor <input type="radio"/> Outdoor <input checked="" type="radio"/> NA	Indoor <input type="radio"/> Outdoor <input checked="" type="radio"/> NA
Filter Diameter (circle)	<input checked="" type="radio"/> 25mm <input type="radio"/> 37mm	<input checked="" type="radio"/> 25mm <input type="radio"/> 37mm	<input checked="" type="radio"/> 25mm <input type="radio"/> 37mm
Pore Size (circle)	TEM- .45 <input checked="" type="radio"/> PCM- 0.8	TEM- .45 <input checked="" type="radio"/> PCM- 0.8	TEM- .45 <input checked="" type="radio"/> PCM- 0.8
Flow Meter Type (circle)	<input checked="" type="radio"/> Rotometer <input type="radio"/> DryCal NA	<input checked="" type="radio"/> Rotometer <input type="radio"/> DryCal NA	<input checked="" type="radio"/> Rotometer <input type="radio"/> DryCal NA
Pump ID Number	691275	620620	666418
Flow Meter ID No.	100916-2	100916-2	100916-2
Start Date	5-23-05	5-23-05	5-23-05
Start Time	8:20	8:24	8:29
Start Flow (L/min)	3.14	3.14	3.14
Stop Date	5-23-05	5-23-05	5-23-05
Stop Time	1450	1453	1457
Stop Flow (L/min)	3.14	3.14	3.14
Pump fault? (circle)	<input checked="" type="radio"/> No <input type="radio"/> Yes NA	<input checked="" type="radio"/> No <input type="radio"/> Yes NA	<input checked="" type="radio"/> No <input type="radio"/> Yes NA
MET Station onsite?	<input checked="" type="radio"/> No <input type="radio"/> Yes NA	<input checked="" type="radio"/> No <input type="radio"/> Yes NA	<input checked="" type="radio"/> No <input type="radio"/> Yes NA
Sample Type	Pre <input type="radio"/> Post <input type="radio"/> Clear <input checked="" type="radio"/> 2 nd Clear <input type="radio"/> 3 rd Clear NA	Pre <input type="radio"/> Post <input type="radio"/> Clear <input checked="" type="radio"/> 2 nd Clear <input type="radio"/> 3 rd Clear NA	Pre <input type="radio"/> Post <input type="radio"/> Clear <input checked="" type="radio"/> 2 nd Clear <input type="radio"/> 3 rd Clear NA
Field Comments			
Cassette Lot Number:	426W		
QC (Field Team) Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____
Archive Blank (circle):	Yes <input checked="" type="radio"/> No	Yes <input checked="" type="radio"/> No	Yes <input checked="" type="radio"/> No

For Field Team Completion (Provide initials) DR, JR Completed by J.R. QC by _____

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR STATIONARY AIR

Field Logbook No: 100434 Page No: 28, 29 Sampling Date: 5-23-05
 Address: 37N Right of Way Owner/Tenant: MONIANA DOT
 Business Name: N/A
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: Repiney, Rakowski

Data Item	Cassette 1	Cassette 2	Cassette 3
Index ID	CS- 20248	CS- 20249	CS- 20250
Location ID	SP- 126967	SP- 126968	SP- 126969
Sample Group	Road	Road	Road
Location Description	S of intersection of 1675 driveway 1673 and Hwy 37N	S of intersection of Entrance to J. Neils Park and Hwy 37N	S of intersection of Pipe creek rd and Hwy 37N
Category (circle)	<input checked="" type="radio"/> FS <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)	<input checked="" type="radio"/> FS <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)	<input checked="" type="radio"/> FS <input type="radio"/> FB (field blank) <input type="radio"/> LB (lot blank)
Matrix Type (circle)	Indoor <input type="radio"/> <u>Outdoor</u> <input type="radio"/> NA	Indoor <input type="radio"/> <u>Outdoor</u> <input type="radio"/> NA	Indoor <input type="radio"/> <u>Outdoor</u> <input type="radio"/> NA
Filter Diameter (circle)	<u>25mm</u> 37mm	<u>25mm</u> 37mm	<u>25mm</u> 37mm
Pore Size (circle)	TEM-.45 <u>PCM-0.8</u>	TEM-.45 <u>PCM-0.8</u>	TEM-.45 <u>PCM-0.8</u>
Flow Meter Type (circle)	<u>Rotometer</u> DryCal NA	<u>Rotometer</u> DryCal NA	<u>Rotometer</u> DryCal NA
Pump ID Number	691259	602269	691350
Flow Meter ID No.	100916-2	100916-2	100916-2
Start Date	5-23-05	5-23-05	5-23-05
Start Time	8:32	8:37	8:40
Start Flow (L/min)	3.14	3.14	3.14
Stop Date	5-23-05	5-23-05	5-23-05
Stop Time	1500	1504	1507
Stop Flow (L/min)	3.14	3.14	3.14
Pump fault? (circle)	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA
MET Station onsite?	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA	<input checked="" type="radio"/> No Yes NA
Sample Type	Pre Post Clear 2 nd Clear 3 rd Clear <u>NA</u>	Pre Post Clear 2 nd Clear 3 rd Clear <u>NA</u>	Pre Post Clear 2 nd Clear 3 rd Clear <u>NA</u>
Field Comments			
Cassette Lot Number:	<u>426W</u>		
QC (Field Team) Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____
Archive Blank (circle):	Yes <input checked="" type="radio"/> No	Yes <input checked="" type="radio"/> No	Yes <input checked="" type="radio"/> No

For Field Team Completion (Provide Initials) DR, JR Completed by A.R. QC by JP

LIBBY FIELD SAMPLE DATA SHEET (FSDS) FOR STATIONARY AIR

Field Logbook No: 100434 Page No: 28, 29 Sampling Date: 5-23-05
 Address: Highway 37 Right of Way Owner/Tenant: MONTANA DOT
 Business Name: N/A
 Land Use: Residential School Commercial Mining Roadway Other ()
 Sampling Team: MACTEC CDM Other _____ Names: Reptone, Rakowski

Data Item	Cassette 1	Cassette 2	Cassette 3
Index ID	CS- 20251		
Location ID	SP- 126970		
Sample Group	<u>Road</u>		
Location Description	<u>S of Intersection of Park and Hwy 37N</u>		
Category (circle)	<input checked="" type="checkbox"/> FS <input type="checkbox"/> FB-(field blank) <input type="checkbox"/> LB-(lot blank)	FS <input type="checkbox"/> FB-(field blank) <input type="checkbox"/> LB-(lot blank)	FS <input type="checkbox"/> FB-(field blank) <input type="checkbox"/> LB-(lot blank)
Matrix Type (circle)	Indoor <input type="checkbox"/> <u>Outdoor</u> <input type="checkbox"/> NA	Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> NA	Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> NA
Filter Diameter (circle)	<u>25mm</u> 37mm	25mm 37mm	25mm 37mm
Pore Size (circle)	TEM-.45 <u>PCM-0.8</u>	TEM-.45 PCM-0.8	TEM-.45 PCM-0.8
Flow Meter Type (circle)	<u>Rotometer</u> DryCal NA	Rotometer DryCal NA	Rotometer DryCal NA
Pump ID Number	<u>691433</u>		
Flow Meter ID No.	<u>100916-2</u>		
Start Date	<u>5-23-05</u>		
Start Time	<u>8:43</u>		
Start Flow (L/min)	<u>4.314</u>		
Stop Date	<u>5-23-05</u>		
Stop Time	<u>1510</u>		
Stop Flow (L/min)	<u>3.14</u>		
Pump fault? (circle)	<input checked="" type="checkbox"/> No Yes NA	No Yes NA	No Yes NA
MET Station onsite?	<input checked="" type="checkbox"/> No Yes NA	No Yes NA	No Yes NA
Sample Type	Pre Post Clear <u>2nd Clear 3rd Clear NA</u>	Pre Post Clear 2 nd Clear 3 rd Clear NA	Pre Post Clear 2 nd Clear 3 rd Clear NA
Field Comments			
Cassette Lot Number:	<u>426N</u>		
QC (Field Team) Entered (LFO)	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

Cass-5
5-23-05

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DA 5-23-05

For Field Team Completion (Provide Initials) DR, TR Completed by JR QC by JP

Appendix H
Analytical Results for 2001 and 2005
Highway 37 Air Sampling

Sample ID	Sample Date	Sample Type	Analysis Method	LA Structures Detected	Analytical Sensitivity	Concentration (S/cc)	Location Description
1R-05995	7/17/2001	Personal	ISO	0	0.1279	< 0.1279	Drive from Plummer to Flyway; roundtrip
1R-05996	7/17/2001	Personal	ISO	0	0.1088	< 0.1088	Drive from Plummer to Flyway; roundtrip
1R-05997	7/18/2001	Personal	ISO	0	0.1186	< 0.1186	Drive from Plummer to Screening Plant; roundtrip
1R-05998	7/18/2001	Personal	ISO	0	0.1231	< 0.1231	Drive from Plummer to Flyway; roundtrip
1R-05999	7/18/2001	Personal	ISO	0	0.1165	< 0.1165	Drive from Plummer to Flyway; roundtrip
1R-06046	7/18/2001	Personal	ISO	0	0.0577	< 0.0577	Walk from Mack's Mart to Screening Plant
1R-06047	7/18/2001	Personal	ISO	0	0.1020	< 0.1020	Walk from 402 Highway 2 West to Mack's Mart
1R-06054	7/19/2001	Personal	PCM	0	0.0490	< 0.0490	Drive from Plummer to Flyway then Screening Plant, following truck; roundtrip
1R-06055	7/19/2001	Personal	PCM	0	0.0530	< 0.0530	Drive from Plummer to Flyway then Screening Plant, following truck; roundtrip
1R-06056	7/19/2001	Personal	PCM	0	0.0490	< 0.0490	Drive from Plummer to Flyway then Screening Plant, following truck; roundtrip
1R-06057	7/19/2001	Personal	PCM	0	0.0930	< 0.0930	Drive from Plummer to Flyway then Screening Plant, following truck; one-way
1R-06130	7/20/2001	Personal	ISO	0	0.1238	< 0.1238	Drive from Plummer to Screening Plant, following truck; roundtrip
1R-06130	7/20/2001	Personal	AHERA	2	0.0585	0.1170	Drive from Plummer to Screening Plant, following truck; roundtrip
1R-06131	7/20/2001	Personal	ISO	0	0.1148	< 0.1148	Drive from Plummer to Flyway, following truck; roundtrip
1R-06132	7/20/2001	Personal	ISO	0	0.0986	< 0.0986	Drive from Plummer to Flyway, following truck; roundtrip
1R-06141	7/21/2001	Personal	ISO	0	0.1332	< 0.1332	Drive from Plummer to Flyway, following truck; roundtrip
1R-06142	7/21/2001	Personal	ISO	0	0.1255	< 0.1255	Drive from Plummer to Flyway, following truck; roundtrip
1R-06143	7/21/2001	Personal	ISO	0	0.2039	< 0.2039	Drive from Plummer to Flyway then Screening Plant, following truck; one-way
1R-06170	7/26/2001	Personal	ISO	0	0.0673	< 0.0673	Drive from LHS to Flyway; roundtrip
1R-06171	7/26/2001	Personal	ISO	0	0.0745	< 0.0745	Drive from LHS to Flyway; roundtrip
1R-06172	7/26/2001	Personal	ISO	0	0.0745	< 0.0745	Drive from LHS to Flyway; roundtrip
1R-06782	8/1/2001	Personal	ISO	0	0.0814	< 0.0814	Drive from LHS to Flyway, following truck; roundtrip
1R-06783	8/1/2001	Personal	ISO	0	0.0714	< 0.0714	Drive from LHS to Flyway, following truck; roundtrip
1R-06784	8/1/2001	Personal	ISO	0	0.1000	< 0.1000	Drive from LHS to Screening Plant, following truck; one-way
1R-06841	8/3/2001	Personal	ISO	0	0.1372	< 0.1372	Drive from LHS to Flyway, following truck; roundtrip
1R-06842	8/3/2001	Personal	ISO	0	0.1343	< 0.1343	Drive from LHS to Flyway, following truck; roundtrip
1R-06843	8/3/2001	Personal	ISO	0	0.1372	< 0.1372	Drive from LHS to Flyway, following truck; roundtrip
1R-07011	8/4/2001	Personal	ISO	0	0.0764	< 0.0764	Walking sample of truck route from LHS to flyway
1R-07012	8/4/2001	Personal	ISO	0	0.0764	< 0.0764	Walking sample of truck route from LHS to flyway
1R-07013	8/4/2001	Personal	ISO	0	0.0733	0	Walking sample of truck route from LHS to flyway
1R-07014	8/4/2001	Personal	ISO	0	0.0815	0	Walking sample of truck route from LHS to flyway
1R-07015	8/4/2001	Personal	ISO	0	0.3056	0	Walking sample of truck route from LHS to flyway

*LHS - Libby High School

Sample ID	Sample Date	Sample Type	Analysis Method	LA Structures Detected	Analytical Sensitivity	Concentration (S/cc)	Location Description
CS-20242	5/23/2005	Stationary	AHERA	0	0.0048	< 0.0048	South of intersection of River Runs Through It and Highway 37N
CS-20243	5/23/2005	Stationary	AHERA	0	0.0048	< 0.0048	South of intersection of Rainy Creek Road and Highway 37N
CS-20244	5/23/2005	Stationary	AHERA	0	0.0046	< 0.0046	4.5 mile mark pull-out
CS-20245	5/23/2005	Stationary	AHERA	0	0.0048	< 0.0048	South of intersection of Rivers Edge Trailer Court and Highway 37N
CS-20246	5/23/2005	Stationary	AHERA	0	0.0049	< 0.0049	West side of Highway 37N at 3.30 mile marker
CS-20247	5/23/2005	Stationary	AHERA	0	0.0049	< 0.0049	South of intersection of Mack Road and Highway 37N
CS-20247	5/23/2005	Stationary	AHERA	0	0.0049	< 0.0049	South of intersection of Mack Road and Highway 37N
CS-20248	5/23/2005	Stationary	AHERA	0	0.0049	< 0.0049	South of intersection of driveway at 1673 and Highway 37N
CS-20249	5/23/2005	Stationary	AHERA	0	0.0049	< 0.0049	South of intersection of entrance to J. Neils Park and Highway 37N
CS-20250	5/23/2005	Stationary	AHERA	0	0.0049	< 0.0049	South of intersection of Pipe Creek Road & Highway 37N
CS-20251	5/23/2005	Stationary	AHERA	0	0.0049	< 0.0049	South of intersection of Park Street & Highway 37N

Appendix I
Analytical Results September 2003 and
May 2005 Highway 37 Soil Sampling Events

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-16872-FG		N/A	Highway 37 N - Right of Way	Road	Area 24N	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	A	ND	ND
CS-16873-FG		N/A	Highway 37 N - Right of Way	Road	Area 24S	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	A	ND	ND
CS-16874-FG		N/A	Highway 37 N - Right of Way	Road	Area 23N	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	A	ND	ND
CS-16875-FG		N/A	Highway 37 N - Right of Way	Road	Area 23 S	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	B1	TR	ND
CS-16876-FG		N/A	Highway 37 N - Right of Way	Road	Area 22N	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	B1	TR	ND
CS-16877-FG		N/A	Highway 37 N - Right of Way	Road	Area 22S	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	A	ND	ND
CS-16878-FG		N/A	Highway 37 N - Right of Way	Road	Area 21N	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	B1	TR	ND
CS-16879-FG		N/A	Highway 37 N - Right of Way	Road	Area 21S	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	B1	TR	ND
CS-16880-FG		N/A	Highway 37 N - Right of Way	Road	Area 20N	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	B2	< 1	ND
CS-16880-FG		N/A	Highway 37 N - Right of Way	Road	Area 20N	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	B1	TR	ND
CS-17121-FG	CS-16880	N/A	Highway 37 N - Right of Way	Road	Area 20	Soil-Like	soil	Field Duplicate	9/16/2003	PLM-VE	B2	< 1	ND
CS-17122-FG		N/A	Highway 37 N - Right of Way	Road	Area 20	Soil-Like	soil	Field Sample	9/16/2003	PLM-VE	B1	TR	ND
CS-17124-FG		N/A	Highway 37 N - Right of Way	Road	Area 19N	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17125-FG		N/A	Highway 37 N - Right of Way	Road	Area 19S	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17126-FG		N/A	Highway 37 N - Right of Way	Road	Area 18N	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B2	< 1	ND
CS-17127-FG		N/A	Highway 37 N - Right of Way	Road	Area 18S	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17128-FG		N/A	Highway 37 N - Right of Way	Road	Area 17N	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17129-FG		N/A	Highway 37 N - Right of Way	Road	Area 17S	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17130-FG		N/A	Highway 37 N - Right of Way	Road	Area 16N	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B2	< 1	ND
CS-17131-FG		N/A	Highway 37 N - Right of Way	Road	Area 16S	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17132-FG	CS-17131	N/A	Highway 37 N - Right of Way	Road	Area 16S	Soil-Like	soil	Field Duplicate	9/17/2003	PLM-VE	B1	TR	ND
CS-17133-FG		N/A	Highway 37 N - Right of Way	Road	Area 15N	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17134-FG		N/A	Highway 37 N - Right of Way	Road	Area 15S	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17135-FG		N/A	Highway 37 N - Right of Way	Road	Area 14N	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17136-FG		N/A	Highway 37 N - Right of Way	Road	Road (14S)	Soil-Like	soil	Field Sample	9/17/2003	PLM-VE	B1	TR	ND
CS-17138-FG		N/A	Highway 37 N - Right of Way	Road	Area 13N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17139-FG		N/A	Highway 37 N - Right of Way	Road	Area 13S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17140-FG		N/A	Highway 37 N - Right of Way	Road	Area 12N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17141-FG		N/A	Highway 37 N - Right of Way	Road	Area 12S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17142-FG		N/A	Highway 37 N - Right of Way	Road	Area 11N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17143-FG		N/A	Highway 37 N - Right of Way	Road	Area 11S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17144-FG		N/A	Highway 37 N - Right of Way	Road	Area 10N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17145-FG		N/A	Highway 37 N - Right of Way	Road	Area 10S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17146-FG	CS-17145	N/A	Highway 37 N - Right of Way	Road	Area 10S	Soil-Like	soil	Field Duplicate	9/18/2003	PLM-VE	B1	TR	ND
CS-17147-FG		N/A	Highway 37 N - Right of Way	Road	Area 9N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17148-FG		Co	Highway 37 N - Right of Way	Road	Area 9S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17149-FG		N/A	Highway 37 N - Right of Way	Road	Area 8N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17150-FG		N/A	Highway 37 N - Right of Way	Road	Area 8S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17151-FG		N/A	Highway 37 N - Right of Way	Road	Area 7N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17152-FG		N/A	Highway 37 N - Right of Way	Road	Area 7S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17153-FG		N/A	Highway 37 N - Right of Way	Road	Area 6N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17154-FG		N/A	Highway 37 N - Right of Way	Road	Area 6S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-17155-FG		N/A	Highway 37 N - Right of Way	Road	Area 5 N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17156-FG		N/A	Highway 37 N - Right of Way	Road	Area 5S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17157-FG		N/A	Highway 37 N - Right of Way	Road	Area 4N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17158-FG		N/A	Highway 37 N - Right of Way	Road	Area 4S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	ND
CS-17159-FG		N/A	Highway 37 N - Right of Way	Road	Area 3N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	IND
CS-17160-FG		N/A	Highway 37 N - Right of Way	Road	Area 3S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	B1	TR	IND
CS-17281-FG		N/A	Highway 37 N - Right of Way	Road	Area 1N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	A	ND	ND
CS-17282-FG		N/A	Highway 37 N - Right of Way	Road	Area 1S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	A	ND	ND
CS-17283-FG		N/A	Highway 37 N - Right of Way	Road	Area 2N	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	A	ND	ND
CS-17284-FG		N/A	Highway 37 N - Right of Way	Road	Area 2S	Soil-Like	soil	Field Sample	9/18/2003	PLM-VE	A	ND	ND

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-20202-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20203-C	cs-20202	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Duplicate	5/23/2005	PLM-Grav	A	ND	ND
CS-20203-FG1	cs-20202	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Duplicate	5/23/2005	PLM-VE	B1	TR	ND
CS-20204-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20205-C	CS-20204	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20205-FG1	CS-20204	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20222-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20223-C	cs-20222	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20223-FG1	cs-20222	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20224-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20225-FG1	CS-20224	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20226-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20227-C	CS-20226	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20227-FG1	CS-20226	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20228-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20229-C	CS-20228	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20229-FG1	CS-20228	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20230-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20231-C	CS-20230	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20231-FG1	CS-20230	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20232-B		N/A	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	A	ND	ND
CS-20233-C	CS-20232	Co	Highway 37 N - Right of Way	Road	right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20233-FG1	CS-20232	Co	Highway 37 N - Right of Way	Road	right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20234-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20235-C	CS-20234	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20235-FG1	CS-20234	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20236-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20237-C	CS-20236	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20237-FG1	CS-20236	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20238-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20239-C	CS-20238	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20239-FG1	CS-20238	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND
CS-20240-B		Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Sample	5/23/2005	PLM-9002	B2	< 1	ND
CS-20241-C	CS-20240	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-Grav	A	ND	ND
CS-20241-FG1	CS-20240	Co	Highway 37 N - Right of Way	Road	Right of way	Soil-Like	soil	Field Split	5/23/2005	PLM-VE	B1	TR	ND

Appendix J
Logbook Pages for 2001 Air Sampling Data
Collected During Plummer Elementary and
Libby High School Remediations

16

Location PLUMMER BLVD SCHOOL Date 14 JUL 01

Project / Client _____

(CONTINUED)

1717 SAMPLES RELINQUISHED TO COO SAMPLE COORDINATOR TERRY KRUMER UNDER THE CHARGE OF CUSTODY.

REFER TO THE FOLLOWING FIELD DATA SHEETS

A-DIR-000380	} PERIMETER AIA SAMPLES
A-DIR-000381	
A-DIR-000382	
A-DIR-000383	} AMBIENT AIR SAMPLES
A-DIR-000384	
P-DIR-000273	} PERSONAL AIR SAMPLERS
P-DIR-000274	

David [Signature]
14 JUL 01

Location

PLUMMER BLVD SCHOOLDate 17 JUL 01 17

Project / Client _____

SAMPLING TEAM: PES, DAVE BROWN, VERA BRY VASILIO

0815 PES ARRIVED ON SITE. TODAY A SERIES OF PERSONAL SAMPLES WILL BE TAKEN TO GET BACKGROUND LEVELS FOR AVE HALL STREET. THE TRUCK ROUTE BETWEEN PLUMMER SCHOOL AND THE FLYWAY SITE. 5 SAMPLES OF APPROXIMATELY 30 MINUTE DURATION WILL BE TAKEN WHILE DRIVING THE ROUTE COUNTERFLOW. THE FIRST WILL BE TAKEN JUST FOLLOWING THE ROUTE. THE REMAINING FOUR WILL FOLLOW A 90 DEGREE TURN TO LEFT AND SIMULATE FOLLOWING A TRUCK. ALSO PERIMETER SAMPLING IN AMBIENT BACKGROUND SAMPLE WILL ALSO BE TAKEN ALONG KUDAN ROAD DUE TO DANGER OF SAMPLE BEING SPANNED.

THE FOLLOWING SAMPLES WILL BE TAKEN TODAY

IA-05955	PERSONAL (EXCURSION) PUMP # 626640 CAL 1.824
IA-05956	PERSONAL (EXCURSION) PUMP # 626640 CAL 1.824
IA-05957	PERSONAL (EXCURSION) PUMP # 626640 CAL 1.824
IA-05958	PERSONAL (EXCURSION) PUMP # 626640 CAL 1.424
IA-05959	PERSONAL (EXCURSION) PUMP # 626640 CAL 1.424
IA-6000	PERSONAL FIELD BLANK
IA-6001	PERSONAL FIELD BLANK
IA-6002	AMBIENT (COOPERATION) PUMP 602935

17 JUL 01

Project / Client _____

CONTINUEDDB

- calibrated 3.02 l/min
 IA-06043, IA-06044 PERFORMED FOR AMBIENT
 ALL PUMPS CALIBRATED WITH METER # 03479
- 0830 MET STATION: TEMP 49°F, WIND Spk @ 27.90 in
 HUM 85% DRW 44%
- 0836 IA-06042 PUMP STARTED
- 0840 IA-06043, IA-06044 OPENED FOR 30 SECONDS,
 CAPPED AND SEALED
- 0849 PUMP STARTED, STARTED DRIVING TO
~~PROPERTY~~ FLYWAY VIA TRUCK ROUTE, IA-05995
- 0904 REACHED FLYWAY ENTRANCE, TURNED AROUND
- 0917 IA-05995 PUMP STOPPED UPON RETURN TO
 PLUMBER POST CAL 1.82 l/min
- 1028 IA-05996 PUMP STARTED, STARTED DRIVING
 TO FLYWAY VIA TRUCK ROUTE, FOLLOWING
 A 1999 CHEVY TACOR SUV AS STATION IN
 FOR TRUCK, LIGHT RAIN IN SPOTS
- 1045 REACHED FLYWAY ENTRANCE, TURNED AROUND
- 1045 EXPERIENCED LIGHT RAIN ON OFF ALONG
 ROUTE
- 1101 IA-05996 PUMP STOPPED UPON RETURN TO PLUMBER
 POST CAL 1.82 l/min
- 1355 HEAVY RAIN FALLING AT PLUMBER
- 1420 DUE TO RAIN WELL COMPLETE 3 IRRAWINESS

17 JULY 01

Project / Client _____

CONTINUEDDB

- SAMPLES ON 16 JULY, TO ALLOW ROOMS TO
 DRY (IA-05997, IA-05998, IA-05999)
- 1440 COM PERSONELL ON SITE TO GPS
 PLOT AREA SAMPLING LOCATIONS
- 1546 IA-06042 PUMP STOPPED, POST CAL 3.02 l/min
- 1553 SAMPLES IA-06042, IA-06043,
 IA-06043 ALL SAMPLES ACCOUNTED
 FOR AND SEALED. PLACED UNDER
 CHAIN OF CUSTODY
- 1610 SAMPLES TRANSPORTED TO COM SAMPLE
 COORDINATOR TO BE ABOLISHED
 UNDER THE CHAIN OF CUSTODY
- 1630 REMAINING SAMPLES ACCOUNTED
 FOR AND LOCKED IN SAMPLE CABINET
 FOR COMPLETION ON 18 JULY 01
- 1640 MET STATION: TEMP 72.4°F WIND Spk @ 30
 B.M. 27.84 in, HUM 37% DRW 38%
 REFERENCE FIELD DATASHEET
 P-DIR-000275

David Brown

Location PLUMMER ELEMENTARY SCHOOL Date 18 JULY 01Project / Client 205
BOUYGUE TRAIL BRANPES SAMPLING TEAM: DAVE BOUQUIN JEREMY VANDER

0815	PES ARRIVED ON SITE. TODAY WE WILL COMPLETE REMAINING HAIL ROUTE SAMPLES AND AN ADDITIONAL 3 WALKING SAMPLES ALONG THE HAIL ROUTE ALL APPROXIMATELY 30 min in DURATION
	THE FOLLOWING SAMPLES WILL BE TAKEN TODAY
	IR-05997 PERSONAL (EUCOR) PUMP # 626640 CAL 182
	IR-05998 PERSONAL (EUCOR) PUMP # 626640 CAL 182
	IR-05999 PERSONAL (EUCOR) PUMP # 626640 CAL 182
	IR-06000, IR-06041 FIELD DRINKS
	IR-06045
	IR-06046
	IR-06047
0830	MET STATION - TRAP 51.5 F WIND 0 MPH BAR 27.82 in Hg HUM 32% DBWP 44
0935	COM ON SITE TO GPS PLOT PARAMETERS OF SITE.
0953	IR-06047 PUMP STARTED, INDIVIDUAL STARTED WALKING FROM COM/PES OFFICES TOWARD SCREENING PLANT VIA TRUCK ROUTE.
1005	IR-06045 PUMP STARTED, INDIVIDUAL STARTED WALKING FROM PLUMMER SCHOOL TO COM/PES OFFICE VIA TRUCK ROUTE.
1028	IR-06047 PUMP STOPPED AT MACKS MENU PLANT

18 JULY 01

Location PLUMMER ELEMENTARY SCHOOL Date 18 JULY 01Project / Client 205

CONTINUED

	POST CAL 1.82 $\frac{1}{min}$
1036	IR-06045 PUMP STOPPED AT COM/PES OFFICE POST CAL 1.82 $\frac{1}{min}$
1104	IR-06046 PUMP STOPPED STARTED INDIVIDUAL BEGAN WALKING FROM MACKS MENU PLANT TOWARD SCREENING PLANT
1206	IR-06046 PUMP STOPPED AT SCREENING PLANT POST CAL 1.82 $\frac{1}{min}$
1427	IR-05997 PUMP STARTED BEGAN DRIVING TO SCREEN PLANT FOLLOWING A '99 CHEVY TRUCK TO SIMULATE FOLLOWUP A TAILGATE
1457	IR-05997 PUMP STOPPED POST CAL 1.82 $\frac{1}{min}$ UPON RETURN TO PLUMMER.
1500	MET STATION - TRAP 73 F WIND 4 MPH AT 30 BAR 27.88 in Hg HUM 28% DBWP 44
1504	IR-05998 PUMP STARTED, BEGAN DRIVING TOWARD THE FLYWAY VIA THE TRUCK ROUTE
1533	IR-05998 PUMP STOPPED POST CAL 1.82 $\frac{1}{min}$ UPON ARRIVING BACK TO PLUMMER ELEMENTARY SCHOOL
1534	IR-05999 PUMP STARTED BEGAN DRIVING TOWARD THE FLYWAY SOUTH FOLLOWING CHEVY TRUCK
1535	IR-05999 PUMP STOPPED POST CAL 1.82 $\frac{1}{min}$ UPON ARRIVAL AT PLUMMER SCHOOL

18 JULY 01

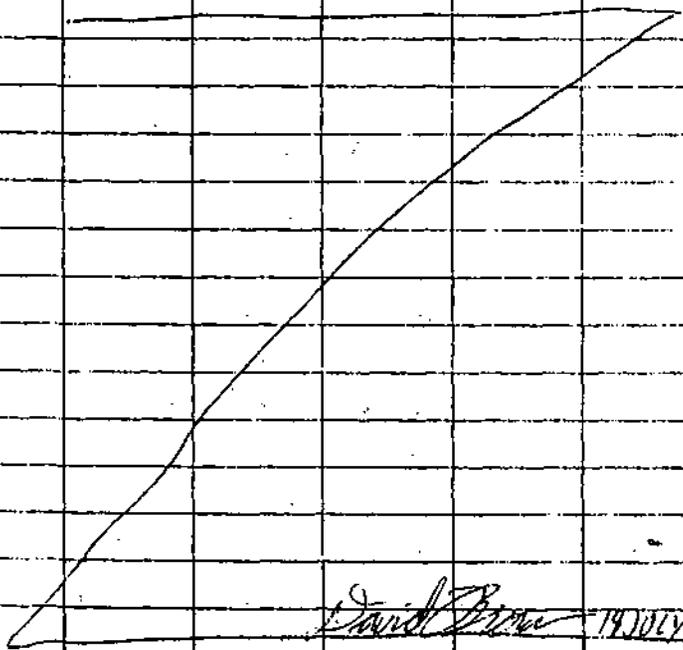
Location PLUMMER PLBA SCHOOL Date 18 JULY 01

Project / Client _____

CONTINUEDDD

1620 MET STATION: TEMP 73.1 F WIND 3 mph @ 170°
BAR 27.98 → HUM 30% DWIN 40%

1630 ALL SAMPLES ACCOUNTED FOR AND SEALED
PLACED UNDER CHAIN OF CUSTODY.
ABLISHED TO COM SAMPLE COORDINATOR
TERRY VELLA UNDER CHAIN OF CUSTODY.
REFER TO THE FOLLOWING FLOW DATA SHEETS:
P-01A-000275
P-01A-000276 BACKGROUND PERSONAL
P-01A-000277 AIR SAMPLES
P-01A-000278



David [Signature] 19 JULY 01

Location PLUMMER PLBA SCHOOL Date 19 JULY 01 23

Project / Client _____

DD David [Signature]

0630 ARRIVED ON SITE AT PLUMMER SCHOOL TODAY
IS SCHEDULED FOR THE BEGINNING OF THE
ACTUAL REMOVAL OF SOIL TODAY. A FULL SET
OF SAMPLES WILL BE TAKEN TO INCLUDE
THE FOLLOWING 4 PARAMETER, 5 PARAMETER
SAMPLES AND 4 PERSONAL SAMPLES (TWO FULL
SHEET, TWO ENCLOSURE) AN ADDITIONAL
SENTS WILL BE RUN ON PMS PERSONAL
FOLLOWING THE TRUCKS TO THE FLYWAY
THE FOLLOWING SAMPLES WILL BE TAKEN TODAY
1A-05962, PARAMETER (PES-1) PUMP# 612058 CAL 3.02 $\frac{1}{min}$
1A-05963, PARAMETER (PES-2) PUMP# 612536 CAL 3.02 $\frac{1}{min}$
1A-05964, PARAMETER (PES-3) PUMP# 612598 CAL 3.02 $\frac{1}{min}$
1A-05965, PARAMETER (PES-4) PUMP# 612698 CAL 3.02 $\frac{1}{min}$
1A-05966, 1A-05967, FIELD BLENDS FOR PARAMETER
1A-05968, AMBIENT (PES-5) PUMP# 612938 CAL 3.02 $\frac{1}{min}$
1A-05969, AMBIENT (PES-6) PUMP# 612602 CAL 3.02 $\frac{1}{min}$
1A-05970, AMBIENT (PES-7) PUMP# 612048 CAL 3.02 $\frac{1}{min}$
1A-05971, AMBIENT (PES-8) PUMP# 612638 CAL 3.02 $\frac{1}{min}$
1A-05972, AMBIENT (PES-9) PUMP# 612098 CAL 3.02 $\frac{1}{min}$
1A-05973, 1A-05974, FIELD BLENDS FOR AMBIENT
1A-06048, PERSONAL (FULL SHEET) PUMP# 612729 CAL 1.83 $\frac{1}{min}$
1A-06049, PERSONAL (EXLUK) PUMP# 612640 CAL 1.83 $\frac{1}{min}$
1A-06050, PERSONAL (FULL SHEET) PUMP# 612600 CAL 1.83 $\frac{1}{min}$

DD
19 JULY 01

24 Location PLUMBER BLVD SCHOOL Date 19 JULY 01

Project / Client _____

CONTINUED 170

1A-06051, PERSONAL (EXCISE) PUMP #612682 CAL. 1.83 1/4 in
 1A-06052, 1A-06053 FELD BLANKS FOR PERSONALS
 1A-06054, PERSONAL (EXCISE) PUMP #612682 CAL. 1.83 1/4 in
 1A-06055, PERSONAL (EXCISE) PUMP #612682 CAL. 1.83 1/4 in
 1A-06056, PERSONAL (EXCISE) PUMP #612682 CAL. 1.83 1/4 in
 1A-06057, PERSONAL (EXCISE) PUMP #612682 CAL. 1.83 1/4 in
 1A-06058, PERSONAL (EXCISE) PUMP #612682 CAL. 1.83 1/4 in
 1A-06059, 1A-06060 (EXCISE) PUMP #612682 CAL. 1.83 1/4 in

FELD BLANKS FOR TRUCK FOLLOWING PERSONALS

ALL PUMPS CALIBRATED WITH BOURNOMETER #034711

0655 1A-05992 PUMP STARTED (PES-9) CLEARWATER
 0655 1A-05992 PUMP STARTED (PES-1) NORTH PENINSULA
 0656 1A-05983 PUMP STARTED (PES-2) EAST PENINSULA
 0656 1A-05991 PUMP STARTED (PES-4) NAFU
 0657 1A-05984 PUMP STARTED (PES-3) SOUTH PENINSULA
 0657 1A-05988 PUMP STARTED (PES-5) HARBOR BY SCHOOL
 0658 1A-05985 PUMP STARTED (PES-4) WEST PENINSULA
 0659 1A-05989 PUMP STARTED (PES-6) SOUTH BY WILKING STREET
 0659 1A-05990 PUMP STARTED (PES-7) FENCE ACROSS STREET
 0705 MET STATION: TEMP 15.0°F, WIND 0 mph, BAA 2793 in
 HUM 74%, Dew PT 41°
 0900 MET STATION: TEMP 51.8°F WIND 2 mph at 40°
 BAA 2794 in HUM 71% Dew PT 43°
 0932 1A-06048 PUMP STARTED PLACED ON WORKER AREA

19 JULY 01

Location PLUMBER BLVD SCHOOL Date 19 JULY 01 25

Project / Client _____

CONTINUED 170

DOWNING LEVEL (P12)
 1035 STARTED RECEIVING ANSWERING TRUCKS
 1040 TRUCKS ON SITE
 1050 1A-06050 PUMP STARTED PLACED ON CURB
 (CARLINA JUNGREN)
 1053 FIRST TRUCK ^{TO BE DOWNING} BACKING IN TO BE LOADED
 1058 TRUCK STUCK IN LOOSE DEAT
 1105 MET STATION: TEMP 64.6°F, WIND 2 mph at 20°
 BAA 2791 in HUM 46% Dew PT 43°
 1107 DRIVER LEFT TRUCK TO ASSIST STUCK
 TRUCK (1A-06050)
 1120 TRUCK UNSTUCK PUMP TO BE LOADED
 1120 1A-06050 RETURNED TO TRUCK
 1137 1A-06054 PUMP STARTED, FOLLOWING
 WHITE PETROBELT PUMP TO FLYWAY
 1140 DRIVER PULLED OVER TO ADJUST TIRE
 1155 1A-06054 PUMP PASSED WHEN REACHED
 FLYWAY, WAITED FOR TRUCK TO
 PULL OUT OF DECON
 1210 TRUCK HAS TO DECON AT SCOURING PLANT
 OUT TO PROBLEMS WITH PRESSURE WASHED
 AT FLYWAY DECON
 1212 TRUCK STUCK IN LOOSE DEAT
 1215 1A-06048 PUMP PAUSED FOR LUNCH

19 JULY 01

26

Location PLUMMER BLVD. SCHOOL Date 19 JULY 01

Project / Client _____

CONTINUED

1255 IR-06054 PUMP STARTED AT SCREENING PLANT,
FOLLOWING BACK TO PLUMMER

1307 IR-06054 PUMP STOPPED AT PLUMMER POST CAL 1.83¹/_{min}

1330 IR-06049, IR-06049 PUMP STARTED PLACED ON
WALKER AFTER DOWNING LEVEL C/PPE

1352 IR-06051 PUMP STARTED, PLACED ON DRIVEN
MOTOR TO LOADING

1400 IR-06049 PUMP STOPPED, RECOMMENDATION
BY W/PPRING DOWN WITH WET RAG. POST
CAL. 1.83¹/_{min}

1405 MET STATION: 72.8°F, WIND 0 MPH
BAR. 27.86 in, HUM 32% DWPT 43°

1417 IR-06055 PUMP STARTED, FOLLOWING
JUNTSSEN TRUCK #5.

1422 IR-06051 PUMP STOPPED, POST CAL 1.83¹/_{min}

1432 IR-06055 PUMP PAUSED AT FLYWAY

1443 IR-06055 PUMP STARTED AT SCREENING PLANT AREA

1456 IR-06055 PUMP STOPPED, POST CAL 1.83¹/_{min}

1502 IR-06056 PUMP STARTED, FOLLOWING BLUE JEM
DUMP TRUCK TO FLYWAY

1517 IR-06056 PUMP PAUSED AT FLYWAY

1527 IR-06056 PUMP STARTED AT SCREENING PLANT

1537 IR-06056 PUMP STOPPED AT PLUMMER, POST CAL 1.83¹/_{min}

1555 MET STATION: 75.4°F Wind Sph @ 50° BAR 27.85 in

19 JULY 01

Location PLUMMER BLVD. SCHOOL Date 19 JULY 01 27

Project / Client _____

CONTINUED

HUM. 27% DWPT 39°

1601 IR-06057 PUMP STARTED FOLLOWING TRUCK
JUNTSSEN #9

1620 IR-05983 PUMP STOPPED, POST CAL 3.02

1625 IR-05984 PUMP STOPPED, POST CAL 3.02

1625 IR-06067 PUMP STARTED, PAUSED AT
FLYWAY

1626 IR-05989 PUMP STARTED, POST CAL 3.02

1630 IR-05985 PUMP STOPPED, POST CAL 3.02

1631 IR-05989 PUMP STOPPED, POST CAL 3.02

1632 IR-06057 STOPPED, POST CAL 1.83¹/_{min}
TRUCK PARKED NEAR DECON AT SCREENING
PLANT ONLY 14 min on excursion

1635 IR-05990 PUMP STOPPED, POST CAL 3.02¹/_{min}

1639 IR-05992 PUMP STOPPED, POST CAL 3.02¹/_{min}

1640 IR-05982 PUMP STOPPED, POST CAL 3.02¹/_{min}

1640 IR-06050 PUMP STOPPED, POST CAL 1.83¹/_{min}

1656 IR-05991 PUMP STOPPED, POST CAL 3.02¹/_{min}

1710 IR-06048 PUMP STOPPED, POST CAL 3.02¹/_{min} 1.83¹/_{min}
RECONNOITERING, PASSING TO CLEAN STORE

1730 ALL SAMPLES ACCOUNTED FOR AND SEALED PLACED
UNDER CUSTODY OF CUSTOMER
SAMPLES RETIQUISHED TO COM SAMPLE
COORDINATOR TERRY WELLEN

19 JULY 01

Location PLUMBER BLANKS Date 7/1/50

Project / Client _____

CONTAINER 120

SAMPLE IA-06058, IA-06059 SUBMITTED
 IN BLANKS A CORRECTION IS CALLED
 ENTRY, IA-00060 TO BE USED TO REF.
 REFER TO THE FOLLOWING FIELD DATA SHEET
 A-OIA-000385 } AMBIENT AIR
 A-OIA-000387 } PERSONAL SAMPLES
 A-OIA-000390 }
 A-OIA-000386 } PERSONAL VIAL SAMPLES
 A-OIA-000387 }
 A-OIA-000389 } PERSONAL SAMPLES
 A-OIA-000390 }
 A-OIA-000381 } PERSONAL TRUCK FOLLOWUP
 A-OIA-000382 } SAMPLES

D. J. [Signature] (1/1/50)

Location PLUMBER BLANKS Date 7/1/50

Project / Client _____

PRS SAMPLING REPORT

0630	PRS 11-11-50	SIDE OF PLUMBER	3.02 1/2 in
		BACKGROUND DATA WILL CONTAIN 100%	
		ACROSS TO BE TAKEN WITH SCALES FULLY PROTECTED	
		FIVE AMBIENT, FOUR PERSONAL, AND ONE CASE	
		AND ONE TRUCK SAMPLES, ADDITIONAL SAMPLES	
		INCLUDING THE TRUCK ONLY AS DESCRIBED ABOVE	
		THE FOLLOWING SAMPLES WILL BE TAKEN: 100%	
		IA-06058, AMBIENT (PRS-1) PUMP # 612058 CAL 3.02 1/2 in	
		IA-06059, AMBIENT (PRS-2) PUMP # 612059 CAL 3.02 1/2 in	
		IA-06060, AMBIENT (PRS-3) PUMP # 612060 CAL 3.02 1/2 in	
		IA-06061, AMBIENT (PRS-4) PUMP # 612061 CAL 3.02 1/2 in	
		IA-06062, IA-06063 FIELD BLANKS FOR 100% 100% 100%	
		IA-06064, AMBIENT (PRS-5) PUMP # 612064 CAL 3.02 1/2 in	
		IA-06065, AMBIENT (PRS-6) PUMP # 612065 CAL 3.02 1/2 in	
		IA-06066, AMBIENT (PRS-7) PUMP # 612066 CAL 3.02 1/2 in	
		IA-06067, AMBIENT (PRS-8) PUMP # 612067 CAL 3.02 1/2 in	
		IA-06068, IA-06069 FIELD BLANKS FOR AMBIENT	
		IA-06070, PERSONAL (PERSONAL) PUMP # 612070 CAL 3.02 1/2 in	
		IA-06071, PERSONAL (PERSONAL) PUMP # 612071 CAL 3.02 1/2 in	
		IA-06072, PERSONAL (PERSONAL) PUMP # 612072 CAL 3.02 1/2 in	
		IA-06073, PERSONAL (PERSONAL) PUMP # 612073 CAL 3.02 1/2 in	
		IA-06074, PERSONAL (PERSONAL) PUMP # 612074 CAL 3.02 1/2 in	
		IA-06075, PERSONAL (PERSONAL) PUMP # 612075 CAL 3.02 1/2 in	
		IA-06076, PERSONAL (PERSONAL) PUMP # 612076 CAL 3.02 1/2 in	
		IA-06077, PERSONAL (PERSONAL) PUMP # 612077 CAL 3.02 1/2 in	
		IA-06078, PERSONAL (PERSONAL) PUMP # 612078 CAL 3.02 1/2 in	
		IA-06079, PERSONAL (PERSONAL) PUMP # 612079 CAL 3.02 1/2 in	
		IA-06080, PERSONAL (PERSONAL) PUMP # 612080 CAL 3.02 1/2 in	
		IA-06081, PERSONAL (PERSONAL) PUMP # 612081 CAL 3.02 1/2 in	
		IA-06082, PERSONAL (PERSONAL) PUMP # 612082 CAL 3.02 1/2 in	
		IA-06083, PERSONAL (PERSONAL) PUMP # 612083 CAL 3.02 1/2 in	
		IA-06084, PERSONAL (PERSONAL) PUMP # 612084 CAL 3.02 1/2 in	
		IA-06085, PERSONAL (PERSONAL) PUMP # 612085 CAL 3.02 1/2 in	
		IA-06086, PERSONAL (PERSONAL) PUMP # 612086 CAL 3.02 1/2 in	
		IA-06087, PERSONAL (PERSONAL) PUMP # 612087 CAL 3.02 1/2 in	
		IA-06088, PERSONAL (PERSONAL) PUMP # 612088 CAL 3.02 1/2 in	
		IA-06089, PERSONAL (PERSONAL) PUMP # 612089 CAL 3.02 1/2 in	
		IA-06090, PERSONAL (PERSONAL) PUMP # 612090 CAL 3.02 1/2 in	
		IA-06091, PERSONAL (PERSONAL) PUMP # 612091 CAL 3.02 1/2 in	
		IA-06092, PERSONAL (PERSONAL) PUMP # 612092 CAL 3.02 1/2 in	
		IA-06093, PERSONAL (PERSONAL) PUMP # 612093 CAL 3.02 1/2 in	
		IA-06094, PERSONAL (PERSONAL) PUMP # 612094 CAL 3.02 1/2 in	
		IA-06095, PERSONAL (PERSONAL) PUMP # 612095 CAL 3.02 1/2 in	
		IA-06096, PERSONAL (PERSONAL) PUMP # 612096 CAL 3.02 1/2 in	
		IA-06097, PERSONAL (PERSONAL) PUMP # 612097 CAL 3.02 1/2 in	
		IA-06098, PERSONAL (PERSONAL) PUMP # 612098 CAL 3.02 1/2 in	
		IA-06099, PERSONAL (PERSONAL) PUMP # 612099 CAL 3.02 1/2 in	
		IA-06100, PERSONAL (PERSONAL) PUMP # 612100 CAL 3.02 1/2 in	
		IA-06101, PERSONAL (PERSONAL) PUMP # 612101 CAL 3.02 1/2 in	
		IA-06102, PERSONAL (PERSONAL) PUMP # 612102 CAL 3.02 1/2 in	
		IA-06103, PERSONAL (PERSONAL) PUMP # 612103 CAL 3.02 1/2 in	
		IA-06104, PERSONAL (PERSONAL) PUMP # 612104 CAL 3.02 1/2 in	
		IA-06105, PERSONAL (PERSONAL) PUMP # 612105 CAL 3.02 1/2 in	
		IA-06106, PERSONAL (PERSONAL) PUMP # 612106 CAL 3.02 1/2 in	
		IA-06107, PERSONAL (PERSONAL) PUMP # 612107 CAL 3.02 1/2 in	
		IA-06108, PERSONAL (PERSONAL) PUMP # 612108 CAL 3.02 1/2 in	
		IA-06109, PERSONAL (PERSONAL) PUMP # 612109 CAL 3.02 1/2 in	
		IA-06110, PERSONAL (PERSONAL) PUMP # 612110 CAL 3.02 1/2 in	
		IA-06111, PERSONAL (PERSONAL) PUMP # 612111 CAL 3.02 1/2 in	
		IA-06112, PERSONAL (PERSONAL) PUMP # 612112 CAL 3.02 1/2 in	
		IA-06113, PERSONAL (PERSONAL) PUMP # 612113 CAL 3.02 1/2 in	
		IA-06114, PERSONAL (PERSONAL) PUMP # 612114 CAL 3.02 1/2 in	
		IA-06115, PERSONAL (PERSONAL) PUMP # 612115 CAL 3.02 1/2 in	
		IA-06116, PERSONAL (PERSONAL) PUMP # 612116 CAL 3.02 1/2 in	
		IA-06117, PERSONAL (PERSONAL) PUMP # 612117 CAL 3.02 1/2 in	
		IA-06118, PERSONAL (PERSONAL) PUMP # 612118 CAL 3.02 1/2 in	
		IA-06119, PERSONAL (PERSONAL) PUMP # 612119 CAL 3.02 1/2 in	
		IA-06120, PERSONAL (PERSONAL) PUMP # 612120 CAL 3.02 1/2 in	

Project / Client

CONTRACT

	IR-06130, PERSONAL (TANK) PUMP #12652 CAL 1.834
	IR-06131, PERSONAL (TANK) PUMP #11622 CAL 1.834
	IR-06132, PERSONAL (TANK) PUMP #12652 CAL 1.834
0650	IR-06133, IR-06134, FLOOR BRACKETS FOR TANK FOUND PIST STATION: TRUCK 43.5°E, WIND 2000, BWA 2750 HWA 3070, DRAW PT 39"
0655	IR-06201, PUMP STARTED
0656	IR-06201, PUMP STOPPED
0659	IR-06205, PUMP STARTED
0700	IR-06202, PUMP STOPPED
0706	IR-06206, PUMP STARTED
0707	IR-06202, PUMP STOPPED, PUMP CALLED OFF
0708	IR-06211, PUMP STARTED
0717	IR-06210, PUMP STARTED
0719	IR-06209, PUMP STARTED
0720	IR-06205, PUMP STARTED
0725	PUMP STARTED, PLACED ON WORKER'S SHOULDER LEVEL C.P.P.E.
0745	FIRST TRUCK DEPARTED
1000	PIST STATION: TRUCK 59.3°E, WIND 3000, BWA 2750 HWA 5700, DRAW PT 41"
1050	IR-06130, PUMP STARTED, FOLLOWING TRUCK BWA FOR TO WORKING PLANT
1103	IR-06130, PUMP STOPPED AT SCRAPING PLANT

Hwy R 11/1/01

Project / Client

CONTRACT

1114	IR-06130, PUMP STARTED, FLYWAY
1125	IR-06132, PUMP STOPPED, FOLLOWING TRUCK
1129	IR-06130, PUMP STOPPED, POST CAL 1.834/min
1243	IR-06132, PUMP STARTED, PLACED ON WORKER'S SHOULDER
1245	PIST STATION: TRUCK 61.6°E, WIND 2000, BWA 2750 HWA 2784, DRAW PT 46"
1256	IR-06131, PUMP STARTED, FOLLOWING TRUCK TO FLYWAY
1314	IR-06131, PUMP STOPPED AT FLYWAY
1322	IR-06131, PUMP STARTED FOR RETURN TRIP
1336	IR-06131, PUMP STOPPED, POST CAL 1.834
1340	IR-06131, PUMP STARTED PLACED ON WORKER'S SHOULDER
1354	IR-06131, PUMP STARTED, FOLLOWING TRUCK TO FLYWAY
1354	IR-06132, PUMP STARTED, FOLLOWING TRUCK TO FLYWAY
1414	IR-06132, PUMP STOPPED AT FLYWAY
1420	IR-06132, PUMP STARTED FOR RETURN
1420	IR-06134, PUMP STOPPED, POST CAL 1.834/min OCCURRED BEFORE PASSING TO CROWN SIDE
1424	IR-06131, PUMP STOPPED, POST CAL 1.834/min
1435	IR-06132, PUMP STOPPED, POST CAL 1.834/min

Hwy R 11/1/01

Project / Client _____

SAMPLING FROM 25' DEPTH IN 1" DIA. WELL

0630 PERSONNEL ON SITE AT PLUMBER BUSH SCHOOL
 RECONSTRUCTION & REMOVAL OF EXISTING WELLS
 TOTAL: 50' PLUS 12' OR THEREABOUTS. FULLY
 PENETRATED SAMPLES, FIVE 1/2" DIA. SAMPLES,
 FOUR PERSONAL SAMPLES (FULL HOLE SHEET FOR EXCURSION
 AND THREE SAMPLES FOR REMOVAL OF WELLS)
 17' LAY STAY THE FOLLOWING SAMPLES WILL
 BE TAKEN FORAY.

IR-0614, PERSONAL (PES-1) PUMP # 012158 CAL 3.02' / min

IR-0615, PERSONAL (PES-2) PUMP # 012159 CAL 3.02' / min

IR-0616, PERSONAL (PES-3) PUMP # 012159 CAL 3.02' / min

IR-0617, PERSONAL (PES-4) PUMP # 012157 CAL 3.02' / min

IR-0618, PERSONAL (PES-5) PUMP # 012158 CAL 3.02' / min

IR-0619, ANNEAL (PAS-6) PUMP # 012159 CAL 3.02' / min

IR-0620, ANNEAL (PAS-7) PUMP # 012158 CAL 3.02' / min

IR-0621, ANNEAL (PAS-8) PUMP # 012158 CAL 3.02' / min

IR-0622, ANNEAL (PAS-9) PUMP # 012158 CAL 3.02' / min

IR-0623, IR-0624 FULL BLANK FOR ANNEAL PERSONAL

IR-0625, IR-0626 PERSONAL (EXCURSION) PUMP # 012157 CAL 1.83

IR-0627, PERSONAL (EXCURSION) PUMP # 012157 CAL 1.83

IR-0628, PERSONAL (EXCURSION) PUMP # 012157 CAL 1.83

IR-0629, PERSONAL (EXCURSION) PUMP # 012157 CAL 1.83

IR-0630, IR-0631 FULL BLANK FOR PERSONAL

IR-0632, PERSONAL (EXCURSION) PUMP # 012157 CAL 1.83

IR-0633, PERSONAL (EXCURSION) PUMP # 012157 CAL 1.83

M. R. 11/1/00

Project / Client _____

CONTINUED

IR-0614, PERSONAL (EXCURSION) PUMP # 012158 CAL 1.83
 IR-0615, PERSONAL (EXCURSION) PUMP # 012158 CAL 1.83
 IR-0616, IR-0617 FULL BLANK FOR ANNEAL PERSONAL
 ALL SAMPLES (EXCURSION) WITH ANNEAL 03/1/00
 0650 IR-0627 PUMP STARTED
 0651 IR-0626 PUMP STARTED
 0653 IR-0618 PUMP STARTED
 0653 IR-0624 PUMP STARTED
 0655 IR-0620 PUMP STARTED
 0655 IR-0621 PUMP STARTED 18-06-27
 0656 IR-0626 PUMP STARTED
 0657 IR-0625 PUMP STARTED
 0659 IR-0619 PUMP STARTED
 0700 PUMP STARTED: TRUCK 54' WIND DRIFT,
 BARR 29.49, HUM 85% DB 50"
 0713 IR-0635 PUMP STARTED PLACED ON WINDMILL
 PUMPING ON LEVEL. CPRE
 0720 IR-0638 PUMP STARTED PLACED ON WINDMILL
 0735 IR-0641 PUMP STARTED FOLLOWING TRUCK TO FLYWAY
 0750 IR-0641 PUMP PAUSED AT FLYWAY
 0758 IR-0641 PUMP STARTED FOR RETURN TO PLUMBER
 0800 IR-0641 PUMP STOPPED RETURNING TO PLUMBER
 0942 IR-0642 PUMP STARTED, FOLLOWING TRUCK TO FLYWAY
 GUYE AHC: DUMA TRUCK

47 R 4/1/00

36

Location PLUMMER BEAN SCHOOL Date 21 JULY 01

Project / Client _____

CONTINUED

0956	1R-06142 PUMP PASSED AT FLYWAY
1005	1R-06142 PUMP STOPPED FOR RETURN TO PLUMMER
1014	1R-06142 PUMP STOPPED AT PLUMMER POST CAL 1.43
1050	1R-06134 PUMP STOPPED PLUMMER WORKER
1100	NET STATION: TEMP 72° WIND 20 mph 40° BAR 29.95 HUM 50% DEWPT 52°
1100	1R-06134 PUMP STOPPED POST CAL 1.43 1/2 in
1153	1R-06135 PUMP PASSED FOR WALK
1307	1R-06135, 1R-06136 PUMPS STOPPED PUMPER ON WORKER AFTER DRINKING LOCAL SODA
1315	NET STATION: TEMP 72° WIND 30 mph 40° BAR 29.93 HUM 50% DEWPT 51° LIGHT RAIN
1324	1R-06143 PUMP STOPPED, FOLLOWING TOUCH TO FLYWAY BLUE SEA TACKLE
1335	1R-06143 PUMP STOPPED AT FLYWAY
1345	1R-06136 PUMP STOPPED, WERE CLEAN SURFACE BEING PASSED TO CLEAN SURF POST CAL 1.83
1347	1R-06143 PUMP STOPPED AT FLYWAY
1350	1R-06143 PUMP STOPPED DRIVER NOT RETURNING TO PLUMMER PARKED AT SCREENING PLANT POST CAL 1.43 1/2 in
1353	1R-06134 PUMP STOPPED, TAKEN FROM DRIVER AND TRANSPORTED TO PLUMMER POST CAL 1.83 1/2 in

11/1/01

Location PLUMMER BEAN SCHOOL Date 21 JULY 01

37

Project / Client _____

CONTINUED

1500	NET STATION: TEMP 72° WIND 20 mph 40° BAR 29.93 HUM 50% DEWPT 53°
1520	1R-06217 PUMP STOPPED, POST CAL 2.02 1/2 in
1522	1R-06217 PUMP STOPPED, POST CAL 3.02 1/2 in
1525	1R-06217 PUMP STOPPED, POST CAL 3.02 1/2 in
1527	1R-06217 PUMP STOPPED, POST CAL 3.02 1/2 in
1528	1R-06217 PUMP STOPPED, POST CAL 3.02 1/2 in
1531	1R-06216 PUMP STOPPED, POST CAL 3.02 1/2 in
1534	1R-06217 PUMP STOPPED, POST CAL 3.02 1/2 in
1536	1R-06216 PUMP STOPPED, POST CAL 3.02 1/2 in
1538	1R-06214 PUMP STOPPED, POST CAL 3.02 1/2 in
1616	LAST TRUCK LOADED, TOM KNOWLES OF CJM CONSTRUCTION DESIGN INSPECTOR AND DETERMINED SITE TO BE CLEAN.
1645	1R-06145 PUMP STOPPED, OCCURRED BEFORE ES AND PASSED TO CLEAN SURF POST CAL 1.83 1/2 in
1650	ALL SAMPLES ACCOUNTED FOR AND SERVED PLUMMER UNDER CUSTODY OF CUSTODY BY AES RELINQUISHED TO CDM SAMPLE COORDINATOR UNDER CUSTODY OF CUSTODY MONDAY 23 JULY 01 TO RETURN BACK FILLING THE FORMER WASTING SURF AREA REFER TO THE FIELD DATA SHEETS ON THE FOLLOWING PAGE

11/1/01

38

Location PLUMMER BLEM SCHOOL Date 21 JULY 01

Project / Client _____

CONTINUED

A-01A-000434	PERSONNEL & RESIDENT
A-01A-000435	
A-01A-000436	RES. SAMPLES
A-01A-000437	PERSONNEL AIR SAMPLES
P-01A-000287	
P-01A-000288	PERSONNEL TRUCK FOLLOWING
P-01A-000289	
P-01A-000290	AIR SAMPLES

David Brown 21 JULY 01

Location PLUMMER BLEM SCHOOL Date 23 JULY 01 39

Project / Client _____

RES SAMPLING TRAIL: OVER FENCE, BRADY KOSZKO

0635	NO. PARADEY ON SITE AT PLUMMER SCHOOL TODAY. ACCESSES INCLUDE KEY FILLER, THE REGIONAL AREA AND BROWN IN AREA. THE CONC. AREA TODAY'S SAMPLES ARE LIMITED TO THE FOUR PERMITTED SAMPLES. THE FOLLOWING SAMPLES WILL BE TAKEN TODAY.
1A-06146	PERMITS (PS-1) PUMP # 60254 CAL 3.05
1A-06147	PERMITS (PS-2) PUMP # 60256 CAL 3.05
1A-06148	PERMITS (PS-3) PUMP # 60254 CAL 3.05
1A-06149	PERMITS (PS-4) PUMP # 61167 CAL 3.05
1A-06150	A-COBI FILLER BUNKS # 01 PERMITS
	ALL PUMPS CALIBRATED WITH ADAPTER 03-1289
0656	1A-06146 PUMP STARTED
0658	1A-06149 PUMP STARTED
0659	1A-06148 PUMP STARTED
0700	1A-06147 PUMP STARTED
0715	1A-06150, 1A-06151 CARTRIDGES PULLED FOR 30 SECONDS, CAPPED AND SEALED.
0730	FIRST TRUCK ON SITE THROUGH FILLING
0745	MET STATION: TEMP 57°F WIND 1 MPH @ 30° BAR 30.15" HUM 63% MSLPT 47"
1015	MET STATION: TEMP 63°F WIND 2 MPH @ 315° BAR 30.11" HUM 63% MSLPT 50"

David Brown 23 JULY 01

44 Location Plummer Elementary School Date 7/25/01

Project / Client Continued Jeremy Vasillo

1419 - IR-06160 pump stopped, post cal 3.05 $\frac{1}{\text{min}}$
1418 IR-06161 pump stopped, post cal 3.05 $\frac{1}{\text{min}}$
1445 All samples accounted for and sealed
placed under chain of custody, samples
relinquished to CDM sample coordinator Angela
Franssen. Refer to field data sheets

A-01R-000442 } Permits

A-01R-000443 } air samples

Jeremy Vasillo 7-25-01

Location PLUMMER ELEMENTARY SCHOOL & LIBBY HIGH SCHOOL Date 7/26/01 45

Project / Client CDM Daniel Brown
SAMPLING TEAM: PBS DAVID BROWN

0700 PBS ARRIVED ON SITE AT PLUMMER
ELEMENTARY SCHOOL. MARCOR WILL CONTINUE
BACK FILLING WITH PER GRAVEL AND
CONTINUE TRANSPORTING MATERIALS FOR
SET UP AT LIBBY HIGH SCHOOL.
TODAY FOUND SAMPLES WILL BE COLLECTED
ALONG EDUCATION WAY AND IN THE
HIGH SCHOOL ~~AT~~ PARKING LOT ALONG THE
TRUCK HAUL ROUTE. THESE SAMPLES ARE
IR-06164 BACKGROUND, TRUCK ROUTE #1, PUMP # 612558
IR-06165 BACKGROUND, TRUCK ROUTE #2, PUMP # 612596
IR-06166 BACKGROUND, TRUCK ROUTE #3, PUMP # 612598
IR-06167 BACKGROUND, TRUCK ROUTE #4, PUMP # 612597
ALL PUMPS CALIBRATED AT 3.05 $\frac{1}{\text{min}}$ 3.51 $\frac{1}{\text{min}}$
WITH AUTOMETER 034219.
ADDITIONAL SAMPLES MAY BE TAKEN LATER
BY DRIVING THE TRUCK ROUTE TO THE PLAYWAY
SIDE. THEY WILL BE NOTED LATER.
0800 REMOVED MET STATION FROM PLUMMER ELEMENTARY
SCHOOL FOR TRANSPORT TO LIBBY HIGH SCHOOL.
1022 IR-06164 PUMP STARTED PLACED IN BACK CORNER OF LOT
1024 IR-06165 PUMP STARTED PLACED AT LOT EXIT ONTO
EDUCATION WAY
1030 IR-06166 PUMP STARTED PLACED AT WAY TO HALL 2

Daniel Brown 7-26-01

4 46 Location LIBBY HIGH SCHOOL Date 26 JULY 01

Project / Client _____

CONTINUEDDB

141032 1A-06167 PUMP STARTED. PLACED 15 YDS BACK FROM HIGHWAY 2

141040 1A-06168, 1A-06169 FIELD BLANKS OPENED FOR 30 SECONDS, RECAPED AND SEALED

1100 Checked PUMPS ALL WORKING PROPERLY

1300 CHECKED PUMPS ALL WORKING PROPERLY

1400 1A-06170 PUMP STARTED, Pump # 612682 CAL 1.57, BEGAN BACKGROUND DRIVING TRUCK ROUTE (LIBBY HIGH SCHOOL - FLYWAY)

1433 1A-06170 PUMP STOPPED AT DEABY H.S. POST 15

1500 1A-06171 PUMP STARTED, CAL 1.57, BEGAN TRUCK ROUTE

1530 1A-06171 PUMP STOPPED, POST CAL 1.57 $\frac{1}{\text{min}}$

1534 1A-06172 PUMP STOPPED, POST CAL 1.57, BEGAN TRUCK ROUTE

1604 1A-06172 PUMP STOPPED, POST CAL 1.57 $\frac{1}{\text{min}}$

1622 1A-06164 PUMP STOPPED, POST CAL 3.51 $\frac{1}{\text{min}}$

1624 1A-06165 PUMP STOPPED, POST CAL 3.51 $\frac{1}{\text{min}}$

1628 1A-06166 PUMP STOPPED, POST CAL 3.51 $\frac{1}{\text{min}}$

1630 1A-06167 PUMP STOPPED, POST CAL 3.51 $\frac{1}{\text{min}}$

1700 SELECTED SAMPLING LOCATIONS FOR PERIMETERS AND AMBIENTS AT LIBBY HIGH SCHOOL

1806 1A-06177 PERIMETER BACKGROUND (LHS-1) STARTED PUMP # 612098 CAL 3.03 $\frac{1}{\text{min}}$

DB 26 JULY 01Location LIBBY HIGH SCHOOL Date 26 JULY 01 47

Project / Client _____

CONTINUEDDB

1806 1A-06178 PERIMETER BACKGROUND (LHS-2) STARTED PUMP # 626638 CAL 3.03 $\frac{1}{\text{min}}$

1809 1A-06179 PERIMETER BACKGROUND (LHS-3) STARTED PUMP # 626602 CAL 3.03 $\frac{1}{\text{min}}$

1812 1A-06180 PERIMETER BACKGROUND (LHS-4) STARTED PUMP # 612888 CAL 3.03 $\frac{1}{\text{min}}$

1815 1A-06181 PERIMETER BACKGROUND (LHS-5) STARTED PUMP # 602938 CAL 3.03 $\frac{1}{\text{min}}$

1820 ~~STARTED~~

1818 1A-06183 PERIMETER BACKGROUND (LHS-7) STARTED PUMP # 602680 CAL 3.03 $\frac{1}{\text{min}}$

1820 1A-06182 PERIMETER BACKGROUND (LHS-6) STARTED PUMP # 626576 CAL 3.03 $\frac{1}{\text{min}}$

1822 1A-06184 PERIMETER BACKGROUND (LHS-8) STARTED PUMP # 612729 CAL 3.03 $\frac{1}{\text{min}}$

1830 1A-06185, 1A-06186 FIELD BLANKS FOR PERIMETERS OPENED FOR 30 SECONDS CAPED AND SEALED ALL PERIMETER BACKGROUND PUMPS CALIBRATED WITH AUTOMETER COBII AMPS TO BE RUN UNTIL VOLUME OF AT LEAST 1200 L was pumped.

2359 ALL PERIMETER BACKGROUND PUMPS STILL RUNNING

2359 ALL FURTHER ENTRIES FOR PERIMETER BACKGROUNDS WILL BE MADE IN LOG FOR 27 JULY 01

DB 27 JULY 01

64

Location LEADY HIGH SCHOOL Date 31 JULY 01

Project / Client _____

CONTINUEDLTSB

A-01A-555
 A-01A-556
 A-01A-557
 A-01A-558
 A-01A-559
 A-01A-560 - PB'S AMBIENT AIR SAMPLES

LHS PERIMETER & AMBIENT
 AIR SAMPLES

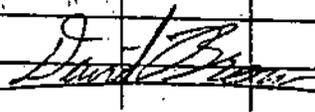
Location LISBY HIGH SCHOOL Date 1 AUG 01 65

Project / Client _____

SAMPLING TEAM: PDS: DAVE BROWN, BRUCE SWIGEN

0615 PDS ARRIVED ON SITE AT LISBY HIGH SCHOOL TODAY WORK WILL CONTINUE ON REPAIRING THE TRACK AND FACILITIES UNDER THE BALCONIES TODAY 8 PERSONAL, 5 AMBIENT, 4 PERSONAL AND 3 TRUCK FOLLOWING SAMPLES WILL BE TAKEN TODAY. THE SAMPLES WOULD BE TAKEN TODAY.

1R-0663	PERSONAL (LHS 1)	PUMP # 612158	CAL 3.05 $\frac{1}{\text{min}}$
1R-0664	PERSONAL (LHS 2)	PUMP # 612138	CAL 3.05 $\frac{1}{\text{min}}$
1R-0665	PERSONAL (LHS 3)	PUMP # 612607	CAL 3.05 $\frac{1}{\text{min}}$
1R-0666	PERSONAL (LHS 4)	PUMP # 612058	CAL 3.05 $\frac{1}{\text{min}}$
1R-0667	PERSONAL (LHS 5)	PUMP # 607938	CAL 3.05 $\frac{1}{\text{min}}$
1R-0668	PERSONAL (LHS 6)	PUMP # 612658	CAL 3.05 $\frac{1}{\text{min}}$
1R-0669	PERSONAL (LHS 7)	PUMP # 607600	CAL 3.05 $\frac{1}{\text{min}}$
1R-0670	PERSONAL (LHS 8)	PUMP # 612729	CAL 3.05 $\frac{1}{\text{min}}$
1R-0671	AMBIENT (LHS 9)	PUMP # 602596	CAL 3.05 $\frac{1}{\text{min}}$
1R-0672	AMBIENT (LHS 10)	PUMP # 612682	CAL 3.05 $\frac{1}{\text{min}}$
1R-0673	AMBIENT (LHS 11)	PUMP # 602558	CAL 3.05 $\frac{1}{\text{min}}$
1R-0674	AMBIENT (LHS 12)	PUMP # 612058	CAL 3.05 $\frac{1}{\text{min}}$
1R-0675	AMBIENT (LHS 13)	PUMP # 612697	CAL 3.05 $\frac{1}{\text{min}}$
1R-0676, 1R-0677	FIELD BLANKS		
1R-0678	PERSONAL (POULSHIEF)	PUMP # 624563	CAL 1.50 $\frac{1}{\text{min}}$
1R-0679	PERSONAL (Excursion)	PUMP # 504861	CAL 1.50 $\frac{1}{\text{min}}$
1R-0680	PERSONAL (POULSHIEF)	PUMP # 610994	CAL 1.50 $\frac{1}{\text{min}}$


 31 JULY 01

1 AUG 01

66 Location LEAHY HIGH SCHOOL Date 1AUG01

Project / Client _____

CONTINUED DD

0650	1R-06782, PERSONAL (EXCESSIVE) PUMP # 626683 CAL 1.50 ⁴ / _{min}
	1R-06787, PERSONAL (EXCESSIVE) PUMP # 626664 CAL 1.50 ⁴ / _{min}
	1R-06783, PERSONAL (EXCESSIVE) PUMP # 626664 CAL 1.50 ⁴ / _{min}
	1R-06784, PERSONAL (EXCESSIVE) PUMP # 626664 CAL 1.50 ⁴ / _{min}
	1R-06785, 1R-06786 FIELD BLANKS FOR TRUCK CHASING
	ALL PUMPS CALIBRATED WITH ROTAMETER # 34719
0650	1R-06698 PUMP STARTED, PLACED ON WORKER AT LEVEL C
0656	1R-06694 PUMP STARTED
0704	1R-06700 PUMP STARTED, PLACED ON WORKER
0722	1R-06683 PUMP STARTED
0724	1R-06695 PUMP STARTED
0728	1R-06684 PUMP STARTED
0729	1R-06685 PUMP STARTED
0731	1R-06693 PUMP STARTED
0734	1R-06697 PUMP STARTED
0736	1R-06690 PUMP STARTED
0737	1R-06691 PUMP STARTED
0738	1R-06689 PUMP STARTED
0740	1R-06698 PUMP STARTED
0742	1R-06687 PUMP STARTED
0743	1R-06686 PUMP STARTED
0900	NET STATION: 47°, IMP @ 200', 30.16, 57° NOM 43' 20" PR
1150	DIRECTED TO PLACE AMBIENT PUMP ON ENTRANCE OF OFFICE

1AUG01

Location LEAHY HIGH SCHOOL Date 1AUG01 67

Project / Client _____

CONTINUED DD

1026	1R-06607 PUMP STARTED, AMBIENT (CAS. 11) PUMP # 602605 CAL 3.05 ⁴ / _{min}
1030	NET STATION: 60°, IMP @ 0', 30.13, 65° NOM 48' 20" PR
1032	1R-06782 PUMP STARTED, ALLOWING TRUCKS FLYWAY
1111	1R-06782 PUMP PAUSED AT FLYWAY
1119	1R-06782 PUMP STARTED FOR RETURN TRIP
1132	1R-06782 PUMP STOPPED AT 1130, POST CAL 1.50 ⁴ / _{min}
1155	1R-06696 PUMP PAUSED FOR LUNCH, CAPPED.
1307	1R-06698 PUMP STARTED, PLACED ON WORKER AT LEVEL C
1316	INFORMED COM TO RUN TEST PETS, NEED 2 PERSONAL AND AMBIENT SAMPLES RUN
1356	1R-06781 PUMP STARTED, PLACED ON WORKER
1356	1R-06689 PUMP STARTED, PLACED ON WORKER
1426	1R-06781 PUMP STARTED, STOPPED, POST CAL 1.50 ⁴ / _{min}
1429	1R-06699 PUMP STOPPED, POST CAL 1.50 ⁴ / _{min}
1442	1R-06783 PUMP STARTED, FOLLOWING TRUCK TO FLYWAY
1447	1R-06783 PUMP PAUSED AT FLYWAY.
1500	THE FOLLOWING SAMPLES WILL BE RUN
	UNLESS COM DIXS TEST PETS
	1R-0608, PERSONAL, PUMP # 626664, CAL 1.50 ⁴ / _{min}
	1R-0609, PERSONAL, PUMP # 626603, CAL 1.5 ⁴ / _{min}
	1R-06810, AMBIENT, PUMP # 602735, CAL 3.05 ⁴ / _{min}
1500	1R-06686 PUMP STARTED
1504	1R-06783 PUMP STARTED FOR RETURN TRIP TO 1130

1AUG01

Project / Client _____

CONTINUED

1505	IR-06809 PUMP STARTED PLACED ON WHEEL VEHICLE
1510	IR-06809 PUMP STARTED PLACED ON WHEEL VEHICLE
1521	IR-06783 PUMP STOPPED UPON RETURN TO LHS BENCH 15
1557	IR-06688 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1559	IR-06684 PUMP STOPPED POST CAL 3.11 $\frac{4}{min}$
1601	IR-06685 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1603	IR-06784 PUMP STARTED FOLLOWING TRUCK # 32 TO SCREENING PLANT
1603	IR-06693 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1607	IR-06690 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1609	IR-06691 PUMP STOPPED POST CAL 3.11 $\frac{4}{min}$
1611	IR-06689 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1613	IR-06688 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1616	IR-06687 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1618	IR-06686 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1626	IR-06784 PUMP STOPPED POST CAL 1.50 $\frac{4}{min}$
	TRUCK ONLY COMPLETED ONE LEG OF TRIP BEFORE UNLOADING AND GOING THROUGH DECON HE STOPPED FOR DAY AT THE SCREENING PLANT.
1628	IR-06700 PUMP STARTED POST CAL 1.50
	PUMP WAS CALLED FROM DRIVER WHEN HE PARKED HIS TRUCK AT SCREENING PLANT AT END OF RUN. WAS DECONED, THEN

1 AUG 01

Project / Client _____

CONTINUED

	BROUGHT BACK TO LHS FOR POST CAL.
1643	IR-06809 PUMP STOPPED - POST CAL 1.50 $\frac{4}{min}$
1644	IR-06694 PUMP STOPPED - POST CAL 3.11 $\frac{4}{min}$
1648	IR-06809 PUMP STOPPED - POST CAL 3.05 $\frac{4}{min}$
1657	IR-06694 PUMP STOPPED - POST CAL 1.50 $\frac{4}{min}$ AND WAS WIPED DOWN WITH A WET TOWEL BEFORE PASSING TO CLINIC
1651	IR-06810 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1654	IR-06698 PUMP STOPPED AND DECONED POST CAL 1.50 $\frac{4}{min}$
1706	IR-06692 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1710	IR-06407 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1715	IR-06695 PUMP STOPPED POST CAL 3.05 $\frac{4}{min}$
1730	ALL SAMPLES ACCOUNTED FOR AND SEALED. PLACED UNDER CHAIN OF CUSTODY BY PFS
	DELIVERED BY PFS TO CAM
	SAMPLE COORDINATOR ANGELA FRANDSON
	UNDER THE CHAIN OF CUSTODY
	REFER TO THE FOLLOWING FIELD DATA SHEETS.
	A-01R-576 } PORTAL AND AMBIENT
	A-01R-577 } AIR SAMPLE.
	A-01R-578 }

1 AUG 01

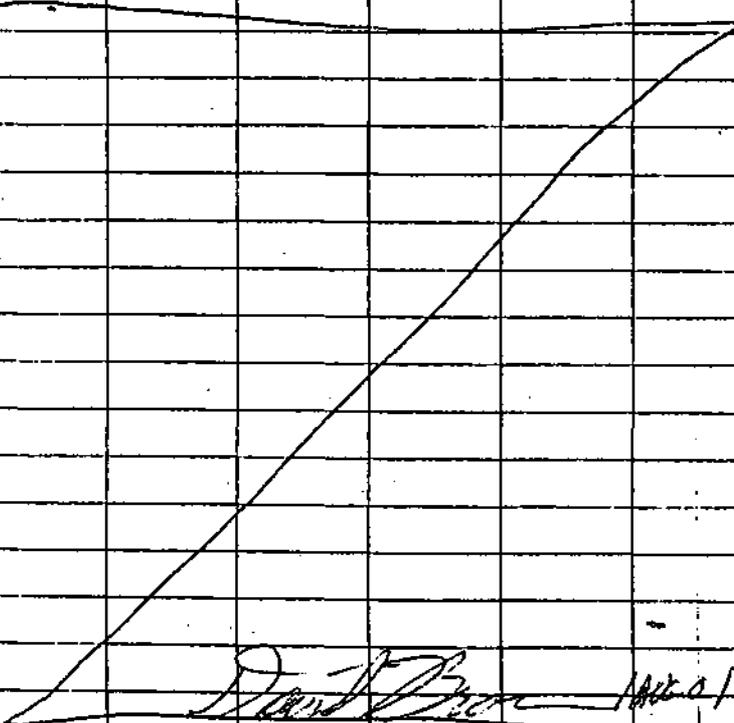
70

Location LIBBY HIGH SCHOOL Date 1 AUG 01

Project / Client _____

CONTINUED

A-OIR-579 } PERIMETER AND AMBIENT
 A-OIR-580 } ATC SAMPLES.
 A-OIR-587 }
 P-OIR-000358 } PERSONAL AIR SAMPLES
 P-OIR-000359 }
 P-OIR-000360 } PERSONAL AIR (TRUCK FOLLOW)
 P-OIR-000361 } SAMPLES
 P-OIR-000364 } PERSONAL AIR SAMPLES
 P-OIR-000365 }



 1 AUG 01

71

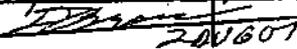
Location LIBBY HIGH SCHOOL Date 2 AUG 01

Project / Client _____

SAMPLING TEAM: PDS DINE BROWN BALLE SAUNDERS

0616 PDS ARRIVED ON SITE AT LIBBY HIGH SCHOOL
 TODAY WORK WILL CONTINUE ON THE
 REMOVAL OF THE TRACK AND GUTTERS AS
 WELL AS VACUATING UNDER THE BUILDING.
 TODAY 3 PERIMETER SAMPLES, 7
 AMBIENT SAMPLES 4 PERSONAL (2
 FULL SHIFT, 2 EXCURSION) AND 3 TRUCK
 FOLLOWING SAMPLES WILL BE TAKEN
 THE SAMPLES BELOW WILL BE TAKEN TODAY.

IR-06787	PERIMETER (LHS-1)	PUMP# 612098	CAL 3.05%
IR-06788	PERIMETER (LHS-2)	PUMP# 626636	CAL 3.05%
IR-06789	PERIMETER (LHS-3)	PUMP# 626602	CAL 3.05%
IR-06790	PERIMETER (LHS-4)	PUMP# 612088	CAL 3.05%
IR-06791	PERIMETER (LHS-5)	PUMP# 602938	CAL 3.05%
IR-06792	PERIMETER (LHS-6)	PUMP# 626578	CAL 3.05%
IR-06793	PERIMETER (LHS-7)	PUMP# 602600	CAL 3.05%
IR-06794	PERIMETER (LHS-8)	PUMP# 612729	CAL 3.05%
IR-06795	PERIMETER (LHS-9)	PUMP# 602596	CAL 3.05%
IR-06796	AMBIENT (LHS-10)	PUMP# 612682	CAL 3.05%
IR-06797	AMBIENT (LHS-11)	PUMP# 602598	CAL 3.05%
IR-06798	AMBIENT (LHS-12)	PUMP# 612058	CAL 3.05%
IR-06799	AMBIENT (LHS-13)	PUMP# 626697	CAL 3.05%
IR-06800	IR-06801	FIELD BAKES FOR SAMPLES	
IR-06802	PERSONAL (FULL)	PUMP# 626640	CAL 1.50%



 2 AUG 01

76

Location LEBBY HIGH SCHOOL Date 2 AUG 01

Project / Client _____

CONTINUED

A-OIR-584 } PERIMETER AND
 A-OIR-585 } AMBIENT ARA SAMPLES
 A-OIR-586 }
 P-OIR-000362 } PERSONAL ARA SAMPLES
 P-OIR-000363 }
 P-OIR-000375 } PERSONAL ARA SAMPLES FOLLOWING
 P-OIR-000376 } TRUCKS
 P-OIR-000381 } PERSONAL ARA SAMPLES
 P-OIR-000382 } TEST PIT EXCAVATION
 A-OIR-00001 } RUST SAMPLE (MICROLOG)

Daniel [Signature] 2 AUG 01

Location LEBBY HIGH SCHOOL Date 2 AUG 01 77

Project / Client _____

SAMPLING TEAM: P.E.S. BOVE ARON, BOUCE SARVEU

0616 P.E.S. ARRIVED ON SITE AT LEBBY HIGH SCHOOL
 TODAY WORK WILL CONTINUE ON THE
 REMOVAL OF THE TRAIL AND CONTAMINATED
 SOIL. TODAY 9 PERIMETER SAMPLES, 7 AMBIENT
 SAMPLES, 4 PERSONAL (2 FULL SHEET 2 EXCURSIONS)
 AND 3 TRUCK FOLLOWING SAMPLES WILL BE
 TAKEN. THE BELOW SAMPLES WILL BE
 COLLECTED TODAY

IR-06820	PERIMETER (LHS-1)	PUMP# 612048	CAL 3.05 ^{1/2} in
IR-06821	PERIMETER (LHS-2)	PUMP# 612638	CAL 3.05 ^{1/2} in
IR-06822	PERIMETER (LHS-3)	PUMP# 612602	CAL 3.05 ^{1/2} in
IR-06823	PERIMETER (LHS-4)	PUMP# 612088	CAL 3.05 ^{1/2} in
IR-06824	PERIMETER (LHS-5)	PUMP# 602938	CAL 3.05 ^{1/2} in
IR-06825	PERIMETER (LHS-6)	PUMP# 612658	CAL 3.05 ^{1/2} in
IR-06826	PERIMETER (LHS-7)	PUMP# 602000	CAL 3.05^{1/2} in
IR-06826	PERIMETER (LHS-7)	PUMP# 602000	CAL 3.05 ^{1/2} in
IR-06827	PERIMETER (LHS-8)	PUMP# 612729	CAL 3.05 ^{1/2} in
IR-06828	AMBIENT (LHS-9)	PUMP# 602586	CAL 3.05 ^{1/2} in
IR-06829	AMBIENT (LHS-10)	PUMP# 612682	CAL 3.05 ^{1/2} in
IR-06830	AMBIENT (LHS-11)	PUMP# 602586	CAL 3.05 ^{1/2} in
IR-06831	AMBIENT (LHS-12)	PUMP# 612058	CAL 3.05 ^{1/2} in
IR-06832	AMBIENT (LHS-13)	PUMP# 612699	CAL 3.05 ^{1/2} in
IR-06833	AMBIENT (LHS-14)	PUMP# 602005	CAL 3.05 ^{1/2} in
IR-06834	AMBIENT (LHS-15)	PUMP# 612603	CAL 3.05 ^{1/2} in

~~IR-06826 PERIMETER (LHS-7) PUMP# 602000 CAL 3.05^{1/2} in~~
 ID 2 AUG 01

Daniel [Signature] 2 AUG 01

71 78

Location LIBBY HIGH SCHOOL Date 3 AUG 01

Project / Client _____

CONTINUED

IR-06835 IR-06836 FIELD BLANKS
 IR-06837 PERSONAL (FULL SHEET) PUMP # 626640 CAL 150'
 IR-06838 PERSONAL (EXCURSION) PUMP # 608461 CAL 150'
 IR-06839 PERSONAL (FULL SHEET) PUMP # 626643 CAL 150'
 IR-06840 PERSONAL (EXCURSION) PUMP # 607894 CAL 150'
 IR-06841 PERSONAL (FIELD) PUMP # 626664 CAL 150'
 IR-06842 PERSONAL (TRUCK EXCURSION) PUMP # 626664 CAL 150'
 IR-06843 PERSONAL (TRUCK EXCURSION) PUMP # 626664 CAL 150'
 IR-06844, IR-06845 (TRUCK EXCURSION) PUMP # 626664 CAL 150'
 FIELD BLANKS FOR ~~TRUCK EXCURSION~~

ALL PUMPS CALIBRATED WITH BUREAU 034719

0630 SURETY MEETING

0645 IR-06839 PUMP STARTED PLACED ON WORKER

0700 IR-06837 PUMP STARTED PLACED ON WORKER WORKER
LEVEL CAP

0701 IR-06831 PUMP STARTED

0716 IR-06827 PUMP STARTED

0718 IR-06828 PUMP STARTED

0719 IR-06826 PUMP STARTED

0721 IR-06833 PUMP STARTED

0722 IR-06825 PUMP STARTED

0723 IR-06820 PUMP STARTED

0724 IR-06824 PUMP STARTED

0724 IR-06832 PUMP STARTED

3 AUG 01Location LIBBY HIGH SCHOOL Date 3 AUG 01 79

Project / Client _____

CONTINUED

0725 IR-06821 PUMP STARTED
 0726 IR-06822 PUMP STARTED
 0726 IR-06823 PUMP STARTED
 0728 IR-06830 PUMP STARTED
 0730 IR-06829 PUMP STARTED
 0733 IR-06834 PUMP STARTED
 0925 IR-06841 PUMP STOPPED FOLLOWING TRUCK TO
 FLWARY
 0940 IR-06841 PUMP PAUSED AT FLWARY
 0943 IR-06841 PUMP STARTED FOR RETURN TO LHS
 0950 IR-06839 PUMP STOPPED AND DRIVER FOUND
 DRIVER TRUCK HAD MECHANICAL PROBLEMS
 AND DRIVER HAS BEEN TRYING TO REPAIR
 SAMPLE VOIDED
 0950 IR-06840 SAMPLE VOIDED
 0956 IR-06841 PUMP STOPPED, POST CAL 150'
 1151 IR-06837 PUMP PAUSED AND CAPPED FOR UNIT
 1256 IR-06837 PUMP STARTED AND PLACED ON WORKER
 1342 IR-06842 PUMP STARTED, FOLLOWING TRUCK
 1359 IR-06847 PUMP PAUSED AT FLWARY
 1405 IR-06842 PUMP STARTED FOR RETURN TO LHS
 1407 IR-06836 PUMP STARTED PLACED ON WORKER
 1419 IR-06842 PUMP STARTED - STOPPED, POST CAL 150'
 1441 IR-06838 PUMP STOPPED, POST CAL 150' DISCONNECTED

3 AUG 01

80 Location LIBBY HIGH SCHOOL Date 3 AUG 01

Project / Client _____

CONTINUED

DZ

1459 ^{FIELD} ~~1459~~ IR-06843 PUMP STARTED FOLLOWING TRUCK

1514 IR-06843 PUMP STOPPED AT FLYWAY

1521 IR-06843 PUMP STARTED FOR RETURN TRUCK TO LHS

1536 IR-06843 PUMP STOPPED AT LHS POST CAL 1.50 $\frac{1}{min}$

1549 A-06827 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1549 IR-06820 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1552 A-06826 PUMP STOPPED, POST CAL 3.15 $\frac{1}{min}$

1553 IR-06828 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1555 IR-06821 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1557 IR-06822 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1584 ^{TO} THROUGH WASTE ENTRY IR-06825 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1600 IR-06830 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1603 IR-06829 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1606 IR-06834 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1605 IR-06833 PUMP STOPPED, POST CAL 3.11 $\frac{1}{min}$

1619 IR-06824 PUMP STOPPED, POST CAL 3.14 $\frac{1}{min}$

1621 IR-06823 PUMP STOPPED, POST CAL 3.25 $\frac{1}{min}$

1645 IR-06831 PUMP STOPPED, POST CAL 3.14 $\frac{1}{min}$

1652 IR-06832 PUMP STOPPED, POST CAL 3.05 $\frac{1}{min}$

1655 IR-06837 PUMP STOPPED, POST CAL 1.50 $\frac{1}{min}$

1715 ALL SAMPLES ACCOUNTED FOR AND SEALED
ALL PUMPS AND SAMPLING EQUIPMENT
DECONNED BEFORE BEING PLACED TO
CLEAN STORE SAMPLES TO BE REANALYZED

3 AUG 01

Location LIBBY HIGH SCHOOL Date 3 AUG 01

81

Project / Client _____

CONTINUED

DZ

TO TRUCK 18662A, COM SAMPLE
COORDINATION
AREA TO THE FOLLOWING FIELD
DATA SHEETS:

A-OIR-588
A-OIR-589
A-OIR-590 } READER 6 AMBIENT
A-OIR-591 } AIR SAMPLE
A-OIR-592
A-OIR-593
P-OIR-000377 } PERSONAL AREA SAMPLES
P-OIR-000378 }
P-OIR-000379 } TRUCK FOLLOWING SAMPLES
P-OIR-000380 }

3 AUG 01

Project / Client David WilsonOBS SAMPLES FROM: DAVE BRUNN; BRUCE SAWYER

0615 PMS ARRIVED ON SITE AT LHS TODAY WORK WILL CONTINUE ON EXCAVATING THE TRACK AND SOILS TODAY & PERMITS SAMPLES, 7 AMBIENT SAMPLES, AND 4 PERSONAL (2 FULL-SHEET, 2 EXCAVATION) SAMPLES WILL BE COLLECTED IN ADDITION AN INDIVIDUAL WILL WALK FROM LHS TO THE SCREENING PLANT, THE EVAPORATOR SAMPLES WILL BE TAKEN ON TOP OF THE WALL THE FOLLOWING SAMPLES WILL BE COLLECTED TODAY

IR-06849	PERMITS (LHS-1)	PUMP# 612099	CAL 3.05 ⁴ min
IR-06850	PERMITS (LHS-2)	PUMP# 626638	CAL 3.05 ⁴ min
IR-06851	PERMITS (LHS-3)	PUMP# 626612	CAL 3.05 ⁴ min
IR-06852	PERMITS (LHS-4)	PUMP# 612088	CAL 3.05 ⁴ min
IR-06853	PERMITS (LHS-5)	PUMP# 602938	CAL 3.05 ⁴ min
IR-06854	PERMITS (LHS-6)	PUMP# 626574	CAL 3.05 ⁴ min
IR-06855	PERMITS (LHS-7)	PUMP# 602600	CAL 3.05 ⁴ min
IR-06856	PERMITS (LHS-8)	PUMP# 612729	CAL 3.05 ⁴ min
IR-06857	PERMITS (LHS-9)	PUMP# 602396	CAL 3.05 ⁴ min
IR-06858	AMBIENT (LHS-10)	PUMP# 612682	CAL 3.05 ⁴ min
IR-06859	AMBIENT (LHS-11)	PUMP# 602598	CAL 3.05 ⁴ min
IR-06860	AMBIENT (LHS-12)	PUMP# 612095	CAL 3.05 ⁴ min
IR-06861	AMBIENT (LHS-13)	PUMP# 612647	CAL 3.05 ⁴ min
IR-06862	AMBIENT (LHS-14)	PUMP# 602605	CAL 3.05 ⁴ min
IR-06863	AMBIENT (LHS-15)	PUMP# 626603	CAL 3.05 ⁴ min

4/16/07

Project / Client David Wilson

CONTINUED

IR-06864, IR-06865	FULL-SHEET		
IR-06866	PERSONAL (FULL-SHEET)	PUMP# 626640	CAL 1.50
IR-06867	PERSONAL (EXCAVATION)	PUMP# 626644	CAL 1.50
IR-06868	PERSONAL (FULL-SHEET)	PUMP# 620883	CAL 1.50
IR-06869	PERSONAL (EXCAVATION)	PUMP# 602235	CAL 1.50
IR-07011	PERSONAL (TRUCK ROUTE)	PUMP# 626664	CAL 1.50
IR-07012	PERSONAL (WALKING-TRUCK ROUTE)	PUMP# 626664	CAL 1.50
IR-07013	PERSONAL (WALKING-FULL-SHEET)	PUMP# 626664	CAL 1.50
IR-07014	PERSONAL (WALKING-TRUCK ROUTE)	PUMP# 626664	CAL 1.50
IR-07015	PERSONAL (WALKING-TRUCK ROUTE)	PUMP# 626664	CAL 1.50
IR-07017	IR-07019	FIELD BLANKS FOR WALKING	
ALL PUMPS CALIBRATED WITH ADJUSTED 03470			
0630	SAFETY MEETING		
0654	IR-06863	PUMP STARTED	
0659	IR-06863	PUMP STARTED	
0700	IR-06866	PUMP STARTED PLACED ON WORKER	
AFTER HE GOT ON LEVEL PIPE			
0702	IR-06862	PUMP STARTED	
0703	IR-06860	PUMP STARTED	
0704	IR-06849	PUMP STARTED	
0705	IR-06861	PUMP STARTED	
0707	IR-06850	PUMP STARTED	
0707	IR-06856	PUMP STARTED	
0709	IR-06851	PUMP STARTED	

4/16/07

84 Location LEBBY HIGH SCHOOL Date 4 AUG 01

Project / Client _____

CONTINUEDES

0707	IR-06857	PUMP STARTED	
0710	IR-06855	PUMP STARTED	
0711	IR-06859	PUMP STARTED	
0715	IR-06866	PUMP STARTED	
0733	IR-06854	PUMP STARTED	
0735	IR-06853	PUMP STARTED	
0736	IR-06852	PUMP STARTED	
0945	BEGINNING WALKING SAMPLE OF TALKING		
	IR-07011	PUMP STARTED	
1017	IR-07011	PUMP STOPPED	POST CAL 1.50 $\frac{1}{2}$ in
1017	IR-07012	PUMP STARTED, WALKING	
1049	IR-07012	PUMP STOPPED	POST CAL 1.50 $\frac{1}{2}$ in
1049	IR-07013	PUMP STARTED, WALKING	
1052	IR-07013	PUMP STOPPED	POST CAL 1.50 $\frac{1}{2}$ in
1122	IR-07014	PUMP STARTED, WALKING	
1152	IR-07014	PUMP STOPPED, WALKING	POST CAL 1.50
1152	IR-07015	PUMP STARTED, WALKING	
1156	IR-06863	PUMP POWERED AND CAPPED FURLONG	
1200	IR-07015	PUMP STOPPED, POST CAL	1.50 $\frac{1}{2}$ in
1230	IR-06864, IR-06865, IR-07017, IR-07019,	BLANKS	
	OPENED FOR 30 SECONDS CAPPED AND SEALED		
1314	IR-06868	PUMP STARTED AND PLACED ON WORKER	
1317	IR-06869	PUMP STARTED, PLACED ON WORKER	
1356	IR-06869	PUMP STOPPED, DECONNO, POST CAL	1.50 $\frac{1}{2}$ in

4 AUG 01Location LEBBY HIGH SCHOOL Date 4 AUG 01 85

Project / Client _____

CONTINUEDES

1407	IR-07016	PUMP STARTED (PUMP # 602599, CAL 1.50 $\frac{1}{2}$ in)	
		PLACED ON DRIVE	
1415	IR-07015	PUMP STARTED (PUMP # 602235, CAL 1.50 $\frac{1}{2}$ in)	
		PLACED ON DRIVE	
1454	IR-06861	PUMP STARTED, PLACED ON DRIVE	
1526	IR-06867	PUMP STARTED, POST CAL	1.50 $\frac{1}{2}$ in
1517	IR-06863	PUMP STOPPED, POST CAL	3.18 $\frac{1}{2}$ in
1550	IR-06859	PUMP STOPPED, POST CAL	3.15 $\frac{1}{2}$ in
1552	IR-06862	PUMP STOPPED, POST CAL	3.18 $\frac{1}{2}$ in
1553	IR-06849	PUMP STOPPED, POST CAL	3.05 $\frac{1}{2}$ in
1555	IR-06850	PUMP STOPPED, POST CAL	3.05
1557	IR-06851	PUMP STOPPED, POST CAL	3.18 $\frac{1}{2}$ in
1559	IR-06859	PUMP STOPPED, POST CAL	3.05 $\frac{1}{2}$ in
1603	IR-06854	PUMP STOPPED, POST CAL	3.05 $\frac{1}{2}$ in
1604	IR-06856	PUMP STOPPED, POST CAL	3.05 $\frac{1}{2}$ in
1605	IR-06853	PUMP FORMER WITH LOW BAIT	
		FAULT, AND NOT RUNNING, COUNTER READ	
		26.2 min, POST CAL	3.15 $\frac{1}{2}$ in
1606	IR-06857	PUMP STOPPED, POST CAL	3.05 $\frac{1}{2}$ in
1608	IR-06852	PUMP STOPPED, POST CAL	3.15 $\frac{1}{2}$ in
1608	IR-06855	PUMP STOPPED, POST CAL	3.05 $\frac{1}{2}$ in

4 AUG 01

Project / Client _____

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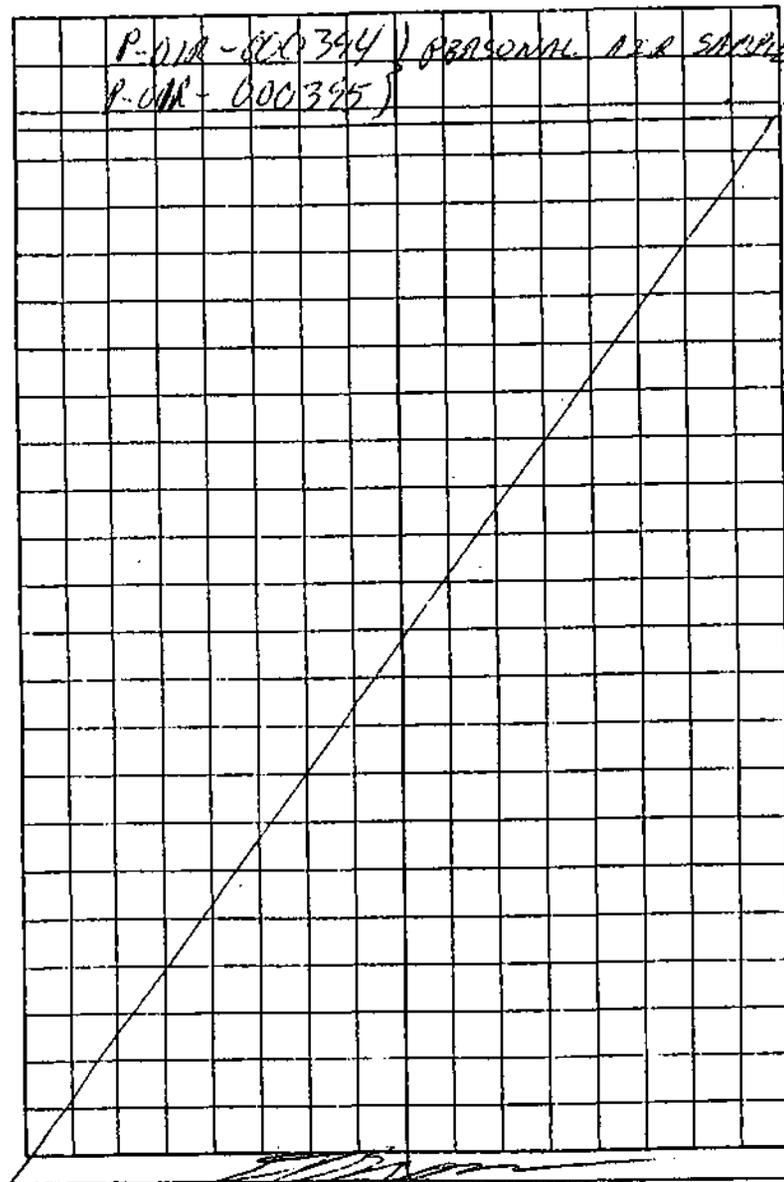
1611	1A-07016	PUMP STOPPED, POST CAL	1.50 $\frac{1}{\text{min}}$
1611	1A-07015	PUMP STOPPED, POST CAL	1.50 $\frac{1}{\text{min}}$
1614	1A-06960	PUMP STOPPED, POST CAL	3.05 $\frac{1}{\text{min}}$
1623	1A-06860	PUMP STOPPED, POST CAL	1.50 $\frac{1}{\text{min}}$
1623	1A-06861	PUMP STOPPED, POST CAL	3.05 $\frac{1}{\text{min}}$
1648	1A-06868	PUMP STOPPED, POST CAL	1.50 $\frac{1}{\text{min}}$
1700	ALL SAMPLES ACCOUNTED FOR AND WRAPPED, ALL SAMPLE EQUIPMENT DECONTAMINATED. ALL SAMPLES PLACED UNDER THE CHAIN OF CUSTODY, TO BE DELIVERED TO COM SAMPLE COORDINATOR TERRY KELLEHER.		
	REFER TO THE FOLLOWING FIELD DATA SHEETS		
	1A-06890		
	A-01A-594		
	A-01A-595		
	A-01A-596		
	A-01A-597		
	A-01A-598		
	A-01A-599		
	P-01A-000383		
	P-01A-000384		
	P-01A-000742		
	P-01A-000383		
	P-01A-000742		

4 AUG 01

Project / Client _____

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P-01A-000394	PERSONAL AIR SAMPLE
P-01A-000395	

4 AUG 01

Appendix K
Field Sample Data Sheets for 2001 Air
Sampling Data Collected During Plummer
Elementary and Libby High School
Remediations

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: PLUMMER ELEM SCHOOL

Land Use Category: Residential (School) Commercial Mining (Other) Car

Name of worker: Dave Brown SSN (last four digits): 8463

Activity: DRIVING FROM PLUMMER ELEM - FLYWAY SITE ROUNDTRIP

Site Visit Date: 7-17-01 Sampling Team: PES: Dave Brown, Jeremy Vasillo

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-05995	1R-05996	1R-05997
Category (circle)	<u>FS</u> Rep _____ Blank _____	<u>FS</u> Rep _____ Blank _____	<u>FS</u> Rep _____ Blank _____
Matrix Type (circle)	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>
Location Description	Shoulder	Shoulder	SHOULDER
Flow Meter Type	Rotameter	Rotameter	ROTAMETER
Flow Meter ID No.	034719	034719	034719 034719
Pump ID Number	626640	626640	626640
Start-Date	7-17-01	7-17-01	7/17/01
Start-Time	0649	1026	1427
Start-Counter	NA	NA	NA
Start-Flow (L/min)	1.62	1.82	1.82
Stop-Date	7-17-01	7-17-01	7/18/01
Stop-Time	0917	1101	1457
Stop-Counter	NA	NA	NA
Stop-Flow (L/min)	1.82	1.82	1.82
Pump fault?	<u>No</u> Yes	<u>No</u> Yes	<u>No</u> Yes
MET Station onsite?	No <u>Yes</u>	No <u>Yes</u>	No <u>Yes</u>
Field Comment	28 min 51L Exc	33 min 60L Exc	30 min 55L

Checked by: JTB

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: PLUMMER ELEMENTARY SCHOOL

Land Use Category: Residential (School) Commercial Mining (Other) Truck Route

Name of worker: Jeremy Vasille SSN (last four digits): 1501

Activity: DARTING FROM PLUMMER ELEMENTARY TO FLYWAY SITE ROUNDTRIP

Site Visit Date: 7/18/01 Sampling Team: PES: J Vasille D Brown

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-05998	1R-05999	1R-6000
Category (circle)	<u>FS</u> Rep _____ Blank _____	<u>FS</u> Rep _____ Blank _____	FS Rep _____ <u>Blank</u>
Matrix Type (circle)	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>	Indoor Outdoor
Location Description	SHOULDER	SHOULDER	
Flow Meter Type	ROTAMETER	ROTAMETER	
Flow Meter ID No.	034719	034719	
Pump ID Number	612729	612729	
Start-Date	18 JULY 01	18 JULY 01	
Start-Time	1504	1534	
Start-Counter	NA	NA	
Start-Flow (L/min)	1.82	1.82	
Stop-Date	18 JULY 01 18 JULY 01	14 JULY 01	
Stop-Time	1533	1605	
Stop-Counter	NA	NA	
Stop-Flow (L/min)	1.82	1.82	
Pump fault?	<u>No</u> Yes	<u>No</u> Yes	No Yes
MET Station onsite?	No <u>Yes</u>	No <u>Yes</u>	No Yes
Field Comment	29 min 53 L	31 min 56 L	

Checked by: JV

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: PLUMMER ELEMENTARY SCHOOL

Land Use Category: Residential School Commercial Mining Other (Truck Route)

Name of worker: DAVE PROYAN SSN (last four digits): 8463

Activity: WALKING AWAY FROM PLUMMER ELEM SCHOOL - FLY WAY ROUNDTRIP

Site Visit Date: 7/18/01 Sampling Team: PES S Vasilew D Brown

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06041	1R-06045	1R-06046
Category (circle)	FS Rep _____ <u>Blank</u>	<u>FS</u> Rep _____ Blank	<u>FS</u> Rep _____ Blank
Matrix Type (circle)	Indoor _____ Outdoor _____	Indoor _____ <u>Outdoor</u>	Indoor _____ <u>Outdoor</u>
Location Description	NA	SHOULDER	SHOULDER
Flow Meter Type		ROTORMETER	ROTORMETER
Flow Meter ID No.		034719	034719
Pump ID Number		612729	612729
Start-Date		18JULY01	18JULY01
Start-Time		1005	1104
Start-Counter		NA	NA
Start-Flow (L/min)		1.53 1.82	1.83 1.82
Stop-Date		18JULY	18JULY01
Stop-Time		1036	1206
Stop-Counter		NA	NA
Stop-Flow (L/min)		1.82	1.82
Pump fault?	No Yes	<u>No</u> Yes	<u>No</u> Yes
MET Station onsite?	No Yes	No <u>Yes</u>	No <u>Yes</u>
Field Comment		WALK FROM PLUMMER TO 402 HIGHWAY 2 WEST (COM/PES OFFICE) 31 min 56 L	WALK FROM MACKS REVENUE TO SCREENING PLANT 62 min 113 L

Checked by: JTB

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019Address or Location: PLUMMER ELEM SCHOOLLand Use Category: Residential School Commercial Mining Other (HAUL ROUTE)Name of worker: JEREMY VASILKO SSN (last four digits): 1501Activity: WALKING HAUL ROUTESite Visit Date: 18 JULY 01 Sampling Team: PPS: DAVE GROWN, JEREMY VASILKO

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06047		
Category (circle)	<input checked="" type="radio"/> FS Rep _____ Blank	FS Rep _____ Blank	FS Rep _____ Blank
Matrix Type (circle)	Indoor <input checked="" type="radio"/> Outdoor	Indoor Outdoor	Indoor Outdoor
Location Description	SACULDER		
Flow Meter Type	ROTAMETER		
Flow Meter ID No.	034719		
Pump ID Number	026640		
Start-Date	18 JULY 01		
Start-Time	08 0953		
Start-Counter	NA		
Start-Flow (L/min)	1.82		
Stop-Date	18 JULY 01		
Stop-Time	1028		
Stop-Counter	NA		
Stop-Flow (L/min)	1.82		
Pump fault?	<input checked="" type="radio"/> No <input type="radio"/> Yes	No Yes	No Yes
MET Station onsite?	No <input checked="" type="radio"/> Yes	No Yes	No Yes
Field Comment	VALUED FROM 402 HEGAWAY 2 WEST TO MACHS MEVEMAT 35min 64 L		

Checked by: JTB

LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR

Field Logbook No.: 100019

Address or Location: PLUMMER ELEM SCHOOL

Land Use Category: Residential School Commercial Mining Other()

Name of worker: DAVE BROWN / DEAN VASTAKO SSN (last four digits): 4463 / 1501

Activity: FOLLOWING TRUCKS

Site Visit Date: 19 JULY 01 Sampling Team: PBS DAVE BROWN

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06054	1R-06055	1R-06056
Category (circle)	<input checked="" type="radio"/> FS Rep _____ Blank _____	<input checked="" type="radio"/> FS Rep _____ Blank _____	<input checked="" type="radio"/> FS Rep _____ Blank _____
Matrix Type (circle)	Indoor _____ <input checked="" type="radio"/> Outdoor	Indoor _____ <input checked="" type="radio"/> Outdoor	Indoor _____ <input checked="" type="radio"/> Outdoor
Location Description	SHOULDER	SHOULDER	SHOULDER
Flow Meter Type	ROTOMETER	ROTOMETER	ROTOMETER
Flow Meter ID No.	034719	034719	034719
Pump ID Number	612682	612682	612682
Start-Date	19 JULY 01	19 JULY 01	19 JULY 01
Start-Time	1137 / 1255	1417 / 1443	1502 / 1522
Start-Counter	NA	NA	NA
Start-Flow (L/min)	1.83	1.83	1.83
Stop-Date	19 JULY 01	19 JULY 01	19 JULY 01
Stop-Time	1155 / 1317	1432 / 1456	1517 / 1537
Stop-Counter	NA	NA	NA
Stop-Flow (L/min)	1.83	1.83	1.83
Pump fault?	<input checked="" type="radio"/> No Yes	<input checked="" type="radio"/> No Yes	<input checked="" type="radio"/> No Yes
MET Station onsite?	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes
Field Comment	FOLLOWING WHITE JEM DUMP TRUCK 30 min 55L	FOLLOWING JUNTUVEN# 5. 28 min 51L	FOLLOWING BLUE JEM TRUCK 30 min 55L

126
7/1/01

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**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: PUMPER ELBA SCHOOL

Land Use Category: Residential School Commercial Mining Other()

Name of worker: DAVE ADOWN / JEREMY VAHRO SSN (last four digits): 4563 / 1501

Activity: FOLLOWING TRUCKS

Site Visit Date: 7-19-01 Sampling Team: PSS: J. Asille D. Brown

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06057	1R-06058	1R-06059
Category (circle)	<input checked="" type="radio"/> FS Rep _____ Blank	FS Rep _____ <input checked="" type="radio"/> Blank	FS Rep _____ <input checked="" type="radio"/> Blank
Matrix Type (circle)	Indoor <input checked="" type="radio"/> Outdoor	Indoor ✓ <input checked="" type="radio"/> Outdoor ✓ 7-19-01	Indoor ✓ <input checked="" type="radio"/> Outdoor ✓ 7-19-01
Location Description	Shouley	NA	NA
Flow Meter Type	Rotameter		
Flow Meter ID No.	034719		
Pump ID Number	612682		
Start-Date	19 JULY 01		
Start-Time	1609		
Start-Counter	NA		
Start-Flow (L/min)	1.25 - 1.83		
Stop-Date	19 JULY 01		
Stop-Time	1625		
Stop-Counter	NA		
Stop-Flow (L/min)	1.83		
Pump fault?	<input checked="" type="radio"/> No Yes	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes
MET Station onsite?	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes 7-19-01	No <input checked="" type="radio"/> Yes 7-19-01
Field Comment	Number #6 11 min 89L		

D. Brown

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019
 Address or Location: Plummer Elem School
 Land Use Category: Residential (School) Commercial Mining Other()
 Name of worker: SUAsilked, DBrown SSN (last four digits): 1501, 8463
 Activity: Follow trucks to fly wall & back to Plummer
 Site Visit Date: 2004/01 Sampling Team: RES: DBrown SUAsilked

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	IR-06130	IR-06131	IR-06132
Category (circle)	<u>ES</u> Rep _____ Blank	<u>ES</u> Rep _____ Blank	<u>ES</u> Rep _____ Blank
Matrix Type (circle)	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>
Location Description	<u>Shoulder</u>	<u>Shoulder</u>	<u>Shoulder</u>
Flow Meter Type	<u>Potometer</u>	<u>Potometer</u>	<u>Potometer</u>
Flow Meter ID No.	<u>034719</u>	<u>034719</u>	<u>034719</u>
Pump ID Number	<u>612682</u>	<u>612682</u>	<u>612682</u>
Start-Date	<u>7-20-01</u>	<u>7-20-01</u>	<u>7-20-01</u>
Start-Time	<u>1050/1114</u>	<u>1147^{2:00} 1258/1322</u>	<u>1315^{2:00} 1354/1401 1420</u>
Start-Counter	<u>NA</u>	<u>NA</u>	<u>NA</u>
Start-Flow (L/min)	<u>1.83</u>	<u>1.83</u>	<u>1.83</u>
Stop-Date	<u>7-20-01</u>	<u>7-20-01</u>	<u>7-20-01</u>
Stop-Time	<u>1103/1129</u>	<u>1214/1336</u>	<u>1414/1435</u>
Stop-Counter	<u>NA</u>	<u>NA</u>	<u>NA</u>
Stop-Flow (L/min)	<u>1.83</u>	<u>1.83</u>	<u>1.83</u>
Pump fault?	<u>(No)</u> Yes	<u>(No)</u> Yes	<u>(No)</u> Yes
MET Station onsite?	No <u>(Yes)</u>	No <u>(Yes)</u>	No <u>(Yes)</u>
Field Comment	<u>28 min 51L</u>	<u>30 min 55L</u>	<u>35 min 64L</u>

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7-20

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**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019Address or Location: Plummer Elem SchoolLand Use Category: Residential School Commercial Mining Other()Name of worker: Jeremy Vasilko / Dave Brown SSN (last four digits): 1501 / 8443Activity: Following Trucks in carSite Visit Date: 7/21/01 Sampling Team: PES: J Vasilko, D Brown

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06141	1R-06142	1R-06143
Category (circle)	<input checked="" type="radio"/> FS Rep _____ Blank	<input checked="" type="radio"/> FS Rep _____ Blank	<input checked="" type="radio"/> FS Rep _____ Blank
Matrix Type (circle)	Indoor <input checked="" type="radio"/> Outdoor	Indoor <input checked="" type="radio"/> Outdoor	Indoor <input checked="" type="radio"/> Outdoor
Location Description	Shoulder	Shoulder	Shoulder
Flow Meter Type	Rotometer	Rotometer	Rotometer
Flow Meter ID No.	034719	034719	034719
Pump ID Number	612682	612682	612682
Start-Date	7-21-01	7-21-01	7-21-01
Start-Time	0735 / 0758	0942 / 1005	1324 / 1347
Start-Counter	NA	NA	NA
Start-Flow (L/min)	1.83	1.83	1.83
Stop-Date	7-21-01	7-21-01	7-21-01
Stop-Time	0750 / 0810	0956 / 1019	1339 / 1350
Stop-Counter	NA	NA	NA
Stop-Flow (L/min)	1.83	1.83	1.83
Pump fault?	<input checked="" type="radio"/> No Yes	<input checked="" type="radio"/> No Yes	<input checked="" type="radio"/> No Yes
MET Station onsite?	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes
Field Comment	27 min 49L WHITE JEN	28 min 51L GRAY LHC TRUCK	18 min 33L BLUE JEN TRUCK

D. Brown

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: LIBBY HIGH SCHOOL

Land Use Category: Residential (School) Commercial Mining Other()

Name of worker: DAVE BROWN SSN (last four digits): 8463

Activity: TRUCK ROUTE BACK-GROUND SAMPLES

Site Visit Date: 26 JULY 01 Sampling Team: PES: DAVE BROWN, JERRY VASELKO

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06170	1R-06171	1R-06172
Category (circle)	<u>FS</u> Rep _____ Blank	<u>FS</u> Rep _____ Blank	<u>FS</u> Rep _____ Blank
Matrix Type (circle)	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>
Location Description	<u>SHOULDER</u>	<u>SHOULDER</u>	<u>SHOULDER</u>
Flow Meter Type	<u>ROTOMETER</u>	<u>ROTOMETER</u>	<u>ROTOMETER</u>
Flow Meter ID No.	<u>034719</u>	<u>034719</u>	<u>034719</u>
Pump ID Number	<u>612682</u>	<u>612682</u>	<u>612682</u>
Start-Date	<u>26 JULY 01</u>	<u>26 JULY 01</u>	<u>26 JULY 01</u>
Start-Time	<u>1400</u>	<u>1600</u>	<u>1534</u>
Start-Counter	<u>NA</u>	<u>NA</u>	<u>NA</u>
Start-Flow (L/min)	<u>1.57</u>	<u>1.57</u>	<u>1.57</u>
Stop-Date	<u>26 JUL 01</u>	<u>26 JUL 01</u>	<u>26 JUL 01</u>
Stop-Time	<u>1433</u>	<u>1530</u>	<u>1604</u>
Stop-Counter	1433 <u>NA</u>	1530 <u>NA</u>	1604
Stop-Flow (L/min)	<u>1.57</u>	<u>1.57</u>	<u>1.57</u>
Pump fault?	<u>No</u> Yes	<u>No</u> Yes	<u>No</u> Yes
MET Station onsite?	<u>No</u> Yes	<u>No</u> Yes	<u>No</u> Yes
Field Comment	<u>33min 52L</u>	<u>30min 47L</u>	<u>30min 47L</u>

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019
 Address or Location: LIBBY HIGH SCHOOL
 Land Use Category: Residential School Commercial Mining Other()
 Name of worker: DAVE BROWN SSN (last four digits): 8463
 Activity: FOLLOWING TRUCKS
 Site Visit Date: 1 AUG 01 Sampling Team: PES: DAVE BROWN, BRUCE SALVEN

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06782	1R-06783	1R-06784
Category (circle)	<input checked="" type="checkbox"/> FS Rep _____ Blank	<input checked="" type="checkbox"/> FS Rep _____ Blank	<input checked="" type="checkbox"/> FS Rep _____ Blank
Matrix Type (circle)	Indoor <input checked="" type="checkbox"/> Outdoor	Indoor <input checked="" type="checkbox"/> Outdoor	Indoor <input checked="" type="checkbox"/> Outdoor
Location Description	Rotometer Shoulder <u>SHOULDER</u>	Rotometer Shoulder <u>Rotometer Shoulder</u>	Rotometer Shoulder <u>Rotometer Shoulder</u>
Flow Meter Type	<u>ROTOMETER</u>	<u>ROTOMETER</u>	<u>ROTOMETER</u>
Flow Meter ID No.	<u>034719</u>	<u>034719</u>	<u>034719</u>
Pump ID Number	<u>626664</u>	<u>626664</u>	<u>626664</u>
Start-Date	<u>1 AUG 01</u>	<u>1 AUG 01</u>	<u>1 AUG 01</u>
Start-Time	<u>1056 / 1119</u>	<u>1442 / 1504</u>	<u>1603</u>
Start-Counter	<u>NA</u>	<u>NA</u>	<u>NA</u>
Start-Flow (L/min)	<u>1.50</u>	<u>1.50</u>	<u>1.50</u>
Stop-Date	<u>1 AUG 01</u>	<u>1 AUG 01</u>	<u>1 AUG 01</u>
Stop-Time	<u>1111 / 1132</u>	<u>1457 / 1501</u>	<u>1626</u>
Stop-Counter	<u>NA</u>	<u>NA</u>	<u>NA</u>
Stop-Flow (L/min)	<u>1.50</u>	<u>1.50</u>	<u>1.50</u>
Pump fault?	<input checked="" type="checkbox"/> No Yes	<input checked="" type="checkbox"/> No Yes	<input checked="" type="checkbox"/> No Yes
MET Station onsite?	No <input checked="" type="checkbox"/> Yes	No <input checked="" type="checkbox"/> Yes	No <input checked="" type="checkbox"/> Yes
Field Comment	<u>FOLLOWING TRUCK #39 28 MINUTES 42 LITERAL</u>	<u>FOLLOWING TRUCK #38 30 MINUTES 48 LITERAL</u>	<u>FOLLOWING TRUCK #30 TO SCREENING PLANT 23 MINUTES (CONWAY) 35 LITERAL</u>

D. Brown

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: LIBBY HIGH SCHOOL

Land Use Category: Residential (School) Commercial Mining Other()

Name of worker: DAVE BROWN SSN (last four digits): 8463

Activity: FOLLOWING TRUCKS

Site Visit Date: 3AUG01 Sampling Team: PE: DAVE BROWN, BRUCE SARVEN

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-06841	1R-06842	1R-06843
Category (circle)	<u>FS</u> Rep _____ Blank	<u>FS</u> Rep _____ Blank	<u>FS</u> Rep _____ Blank
Matrix Type (circle)	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>	Indoor <u>Outdoor</u>
Location Description	<u>SHOULDER</u>	<u>SHOULDER</u>	<u>SHOULDER</u>
Flow Meter Type	<u>034719</u> <small>ROTOR METER</small>	<u>034719</u> <small>ROTOR METER</small>	<u>034719</u> <small>ROTOR METER</small>
Flow Meter ID No.	<u>034719</u>	<u>034719</u>	<u>034719</u>
Pump ID Number	<u>626664</u>	<u>626664</u>	<u>626664</u>
Start-Date	<u>3AUG01</u>	<u>3AUG01</u>	<u>3AUG01</u>
Start-Time	<u>0925/0943</u>	<u>1342/1405</u>	<u>1459/1521</u>
Start-Counter	<u>NA</u>	<u>NA</u>	<u>NA</u>
Start-Flow (L/min)	<u>1.50</u>	<u>1.50</u>	<u>1.50</u>
Stop-Date	<u>3AUG01</u>	<u>3AUG01</u>	<u>3AUG01</u>
Stop-Time	<u>0940/0958</u>	<u>1359/1419</u>	<u>1504/1536</u>
Stop-Counter	<u>NA</u>	<u>NA</u>	<u>NA</u>
Stop-Flow (L/min)	<u>1.50</u>	<u>1.50</u>	<u>1.50</u>
Pump fault?	<u>No</u> Yes	<u>No</u> Yes	<u>No</u> Yes
MET Station onsite?	No <u>Yes</u>	No <u>Yes</u>	No <u>Yes</u>
Field Comment	30 MINUTE 45 LITER FOLLOWING TRUCK #34 #36 BI 8/15/01	FOLLOWING TRUCK #31 BI 8/17/01 31 MINUTE 465 OFFICIAL 47L	FOLLOWING TRUCK #36 30 MINUTE 45 LITER

[Handwritten Signature]

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: LIBBY HIGH SCHOOL

Land Use Category: Residential School Commercial Mining Other

Name of worker: Justin LeClerc SSN (last four digits): 7636

Activity: WALKING TRUCK ROUTE

Site Visit Date: 4 AUG 01 Sampling Team: PHS: DAVID SARKIS, DAVID BROWN

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-07011	1R-07012	1R-07013
Category (circle)	<input checked="" type="radio"/> FS Rep _____ Blank	<input checked="" type="radio"/> FS Rep _____ Blank	<input checked="" type="radio"/> FS Rep _____ Blank
Matrix Type (circle)	Indoor <input checked="" type="radio"/> Outdoor	Indoor <input checked="" type="radio"/> Outdoor	Indoor <input checked="" type="radio"/> Outdoor
Location Description	SHOULDER	SHOULDER	SHOULDER
Flow Meter Type	ROTAMETER	ROTAMETER	ROTAMETER
Flow Meter ID No.	034719	034719	034719
Pump ID Number	626664	626664	626664
Start-Date	4 AUG 01	4 AUG 01	4 AUG 01
Start-Time	0945	1017	1049
Start-Counter	NA	NA	NA
Start-Flow (L/min)	1.50	1.50	1.50
Stop-Date	4 AUG 01	4 AUG 01	4 AUG 01
Stop-Time	10:17	1049	1122
Stop-Counter	NA	NA	NA
Stop-Flow (L/min)	1.50	1.50	1.50
Pump fault?	<input checked="" type="radio"/> No Yes	<input checked="" type="radio"/> No Yes	<input checked="" type="radio"/> No Yes
MET Station onsite?	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes
Field Comment	33 MINUTES 48 LITERS	33 MINUTES 48 LITERS	33 MINUTES 48 LITERS 50 L

4 AUG 01

4 AUG 01

**LIBBY MONTANA SITE INVESTIGATION
FIELD SAMPLE DATA SHEET FOR
PERSONAL AIR**

Field Logbook No.: 100019

Address or Location: LIBBY HIGH SCHOOL

Land Use Category: Residential School Commercial Mining Other()

Name of worker: Justin LeClerc SSN (last four digits): 7636

Activity: WALKING TRUCK ROUTE

Site Visit Date: 4 AUG 01 Sampling Team: DES: PAUL & SARVEN, DAVE BRADY

Data Item	Cassette 1	Cassette 2	Cassette 3
Field ID Number			
Index ID	1R-07014	1R-07015	1R-07019 ID 4/11/01
Category (circle)	<input checked="" type="radio"/> FS Rep _____ Blank	<input checked="" type="radio"/> FS Rep _____ Blank	FS Rep _____ <input checked="" type="radio"/> Blank
Matrix Type (circle)	Indoor <input checked="" type="radio"/> Outdoor	Indoor <input checked="" type="radio"/> Outdoor	Indoor Outdoor
Location Description	<u>SHARVOEN</u>	<u>SHARVOEN</u>	
Flow Meter Type	<u>NOTOMETER</u>	<u>NOTOMETER</u>	
Flow Meter ID No.	<u>034719</u>	<u>034719</u>	
Pump ID Number	<u>626664</u>	<u>626664</u>	
Start-Date	<u>4 AUG 01</u>	<u>4 AUG 01</u>	
Start-Time	<u>1122</u>	<u>1152</u>	
Start-Counter	<u>4A 8/14/01 NA</u>	<u>NA</u>	
Start-Flow (L/min)	<u>1.50</u>	<u>1.50</u>	
Stop-Date	<u>4 AUG 01</u>	<u>4 AUG 01</u>	
Stop-Time	<u>1152</u>	<u>1200</u>	
Stop-Counter	<u>NA</u>	<u>NA</u>	
Stop-Flow (L/min)	<u>1.50</u>	<u>1.50</u>	
Pump fault?	<input checked="" type="radio"/> No Yes	<input checked="" type="radio"/> No Yes	No <input checked="" type="checkbox"/> Yes
MET Station onsite?	No <input checked="" type="radio"/> Yes	No <input checked="" type="radio"/> Yes	No Yes
Field Comment	<u>30 MINUTES</u> <u>7 AS 45 LITERS</u> <u>8/14/01</u>	<u>8 MINUTES</u> <u>12 LITERS</u>	<u>OPENED FOR 30 SEC</u> <u>AND SEALED. 1230</u>